HILL
International

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Date: May 23, 2024

Ref: PEG-1155-93M-CN-HI-BOA-LET-ES-10436
Jean Marc Decloquement
Consortium Director
Blocks 277-278,2nd business sector,
Teseen st, Shaker Consultancy Building
New Cairo, Egypt.

Project: Engineering, Procurement and Construction of the New Administrative Capital Monorail and 6th October City Monorail (Contract 93/Metro).

Subject: Comments on shop drawings. // 93M-BOA-NAT-LOT-26138

References:

1. Hill's Letter ref. PEG-1155-93M-CN-HI-BOA-LET-JB-0164
2. Hill's Letter no- PEG-1155-93M-CN-HI-BOA-LET-JB-0205
3. Contractor's Transmittal ref. 93M-BOA-NAT-LOT-26138

Dear Sir,

We note that the below shop drawings (in the Annexure) were uploaded on Aconex with status "closed". We note that there are some comments within the drawings needed to be addressed before commencing the site work.

The comments on the shop drawings as per attached annexure.

The Contractor is advised to correct the above into the shop drawings before any issuance to his site staff.

The Contractor is hereby further notified that in any such eventuality of rework, dismantling of constructed structure on account of such omission on the part of Contractor, it will be to Contractor's account and we re-iterate that any deviations from the approved drawings will triggers withholding from the upcoming payments pursuant to Sub-Clause 14.6 (b) of Conditions of Contract.

For and on behalf of
Hill International (Africa) Ltd

Navendu Lad
Acting Project Director
Attachments:

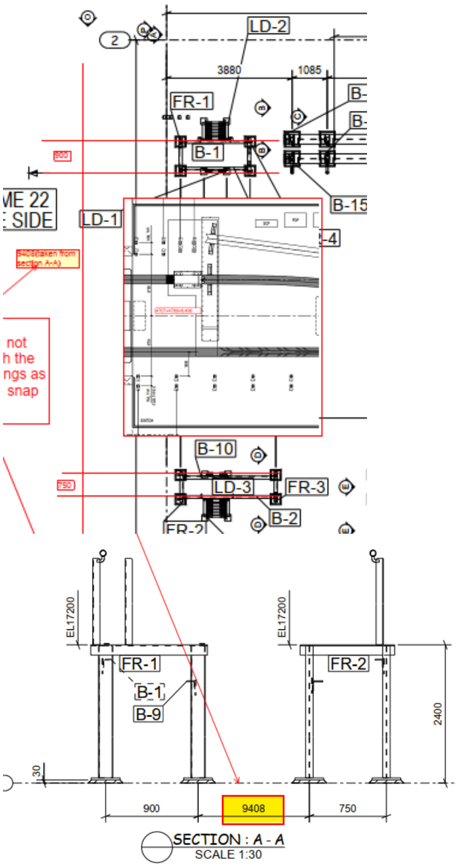
1. Comments table.
2. Stamped Drawings listed in the attached "Comments table".

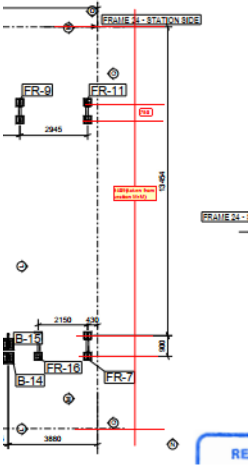
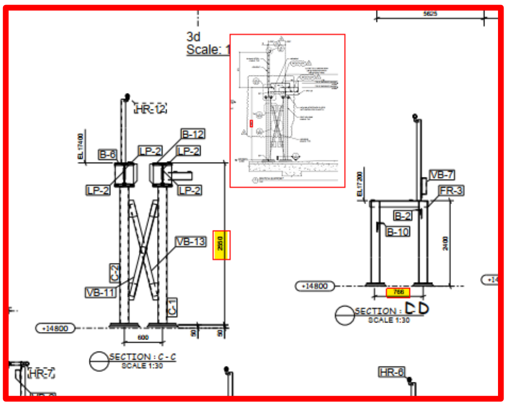
Initial /reviewed by: ES

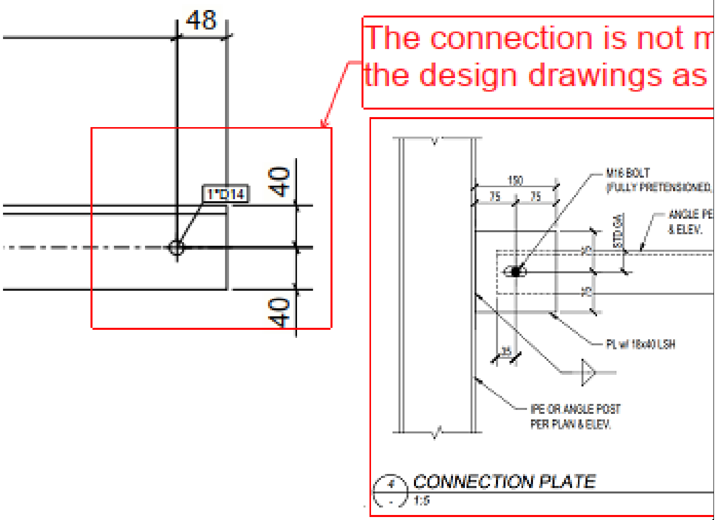
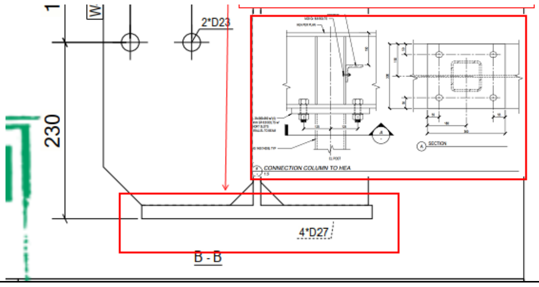
Reply Required: (X) Yes ( ) No

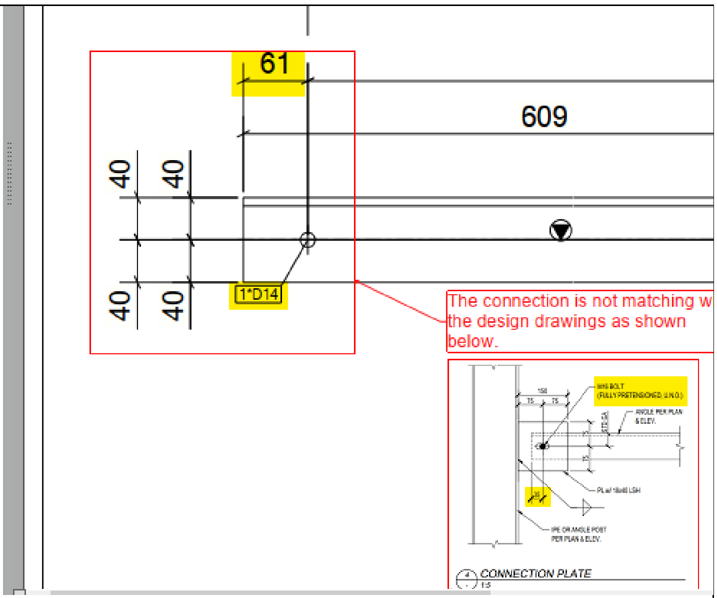
Cc: NAT

93M-BOA-NAT-LOT-26138

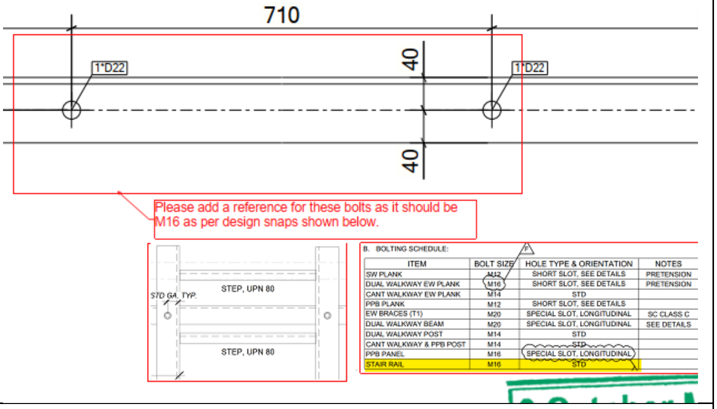
S.No.	Drawing no	Comments
1	93M-0473-ACC-6OL00-DWG-50000-C.	General notes for all details: - It is the contractor responsibility to ensure and revise all Dimensions and levels with the approved design drawings besides the coordination package before commencing any site Works. -For all the GA & assembly drawings: the weld details(type , Symbol,……) of all connections shall be provided. -The embedded length of anchors shall be provided.
2	93M-0473-ACC-6OL00-DWG-50001-C.	-Approval is subject to approval of coordination package between multi-disciplines.
3	93M-0473-ACC-6OL00-DWG-50002-C.	-Highlighted dimension is not matching with the design drawings as shown in the snap taken.  LD-2 2 3880 1085 FR-1 B-1 B-15 900 ME 22 SIDE LD-1 9408(taken from section A-A) -4 not h the ngs as snap B-10 750 LD-3 FR-3 B-2 FR-2 EL17200 EL17200 FR-1 B-1 B-9 FR-2 2400 30 900 9408 750 SECTION : A - A SCALE 1:30

		 FRAME 24 - STATION SIDE FR-9 FR-11 2945 FRAME 24 - 2150 430 B-15 FR-16 B-14 FR-7 3880 RE -Please add the Main line and station line axes as they are shown in the design references then refer all the other axes (from A to E) to them. -Highlighted dimensions are not matching with the design drawings as shown in the snaps taken below. -Please show the planks on the sections of the GA drawings with their levels.  5625 3d Scale: 1 HR-12 B-12 B-8 LP-2 LP-2 LP-2 LP-2 VB-13 VB-11 +14800 600 SECTION : C-C SCALE 1:30 HR-7 VB-7 FR-3 B-2 B-10 2400 +14800 SECTION : D-D SCALE 1:30 HR-6
4	93M-0473-ACC-6OL00-DWG-50003-C.	Drawing shall be updated according to the comments on the GA drawing.
5	93M-0473-ACC-6OL00-DWG-50004-C.	Drawing shall be updated according to the comments on the GA drawing.
6	93M-0473-ACC-6OL00-DWG-50005-C.	Drawing shall be updated according to the comments on the GA drawing.
7	93M-0473-ACC-6OL00-DWG-50006-C.	-Drawing shall be updated according to the comments on the GA drawing. -The connection is not matching with the design drawings as shown below.

		 48 40 1*D14 40 The connection is not m the design drawings as 150 75 75 M16 BOLT (FULLY PRETENSIONED, ANGLE PE & ELEV. STD.GA PL w/ 18x40 LSH 25 IPE OR ANGLE POST PER PLAN & ELEV. CONNECTION PLATE 1:5 4
8	93M-0473-ACC-6OL00-DWG-50007-C.	-Same comments as 93M-0473-ACC-6OL00-DWG-50006-C
9	93M-0473-ACC-6OL00-DWG-50008-C.	-Show the bolts in this section and follow the design reference as shown below for the slot sizes.  1 W 2*D23 230 4*D27 B - B CONNECTION COLUMN TO HEA SECTION
10	93M-0473-ACC-6OL00-DWG-50009-C.	-Same comments as 93M-0473-ACC-6OL00-DWG-50008-C.
11	93M-0473-ACC-6OL00-DWG-50010-C.	Same comments as 93M-0473-ACC-6OL00-DWG-50008-C.
12	93M-0473-ACC-6OL00-DWG-50011-C.	Same comments as 93M-0473-ACC-6OL00-DWG-50008-C.
13	93M-0473-ACC-6OL00-DWG-50012-C.	Same comments as 93M-0473-ACC-6OL00-DWG-50008-C.
14	93M-0473-ACC-6OL00-DWG-50013-C.	Same comments as 93M-0473-ACC-6OL00-DWG-50008-C.
15	93M-0473-ACC-6OL00-DWG-50014-C.	-The connection is not matching with the design drawings as shown below.

<table>
<tr><td></td><td></td><td>

61
609
40
40
40
40
1*D14
150
75
75
STD GA
M16 BOLT (FULLY PRETENSIONED, U.N.O.)
ANGLE PER PLAN & ELEV.
PL w/ 18x40 LSH
IPE OR ANGLE POST PER PLAN & ELEV.
CONNECTION PLATE
1:5
The connection is not matching w the design drawings as shown below.

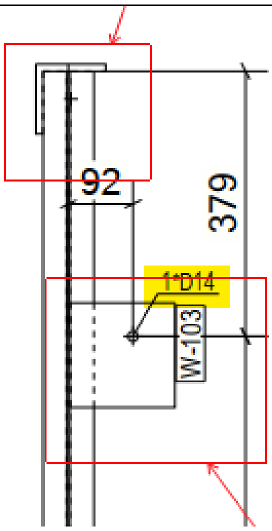
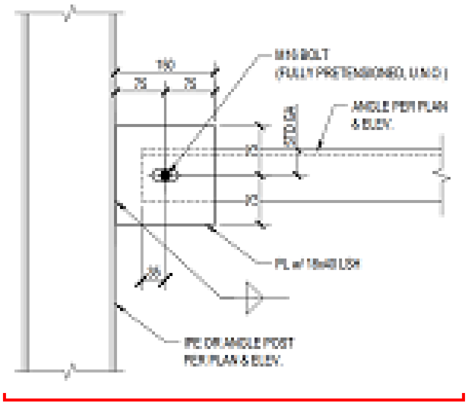
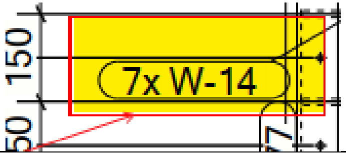
Please add a reference for these bolts, as it should be M16 as per design snaps shown below.


710
1*D22
1*D22
40
40
STD GA. TYP.
STEP, UPN 80
STEP, UPN 80
Please add a reference for these bolts as it should be M16 as per design snaps shown below.

B. BOLTING SCHEDULE:
<table>
<tr><th>ITEM</th><th>BOLT SIZE</th><th>HOLE TYPE & ORIENTATION</th><th>NOTES</th></tr>
<tr><td>SW PLANK</td><td>~~M12~~</td><td>SHORT SLOT, SEE DETAILS</td><td>PRETENSION</td></tr>
<tr><td>DUAL WALKWAY EW PLANK</td><td>M16</td><td>SHORT SLOT, SEE DETAILS</td><td>PRETENSION</td></tr>
<tr><td>CANT WALKWAY EW PLANK</td><td>M14</td><td>STD</td><td></td></tr>
<tr><td>PPB PLANK</td><td>M12</td><td>SHORT SLOT, SEE DETAILS</td><td></td></tr>
<tr><td>EW BRACES (T1)</td><td>M20</td><td>SPECIAL SLOT, LONGITUDINAL</td><td>SC CLASS C</td></tr>
<tr><td>DUAL WALKWAY BEAM</td><td>M20</td><td>SPECIAL SLOT, LONGITUDINAL</td><td>SEE DETAILS</td></tr>
<tr><td>DUAL WALKWAY POST</td><td>M14</td><td>STD</td><td></td></tr>
<tr><td>CANT WALKWAY & PPB POST</td><td>M14</td><td>~~STD~~</td><td></td></tr>
<tr><td>PPB PANEL</td><td>M16</td><td>SPECIAL SLOT, LONGITUDINAL</td><td></td></tr>
<tr><td>STAIR RAIL</td><td>M16</td><td>STD</td><td></td></tr>
</table>
</td></tr>
<tr><td>16</td><td>93M-0473-ACC-6OL00-DWG-50015-C.</td><td>-Same comments as 93M-0473-ACC-6OL00-DWG-50014-C</td></tr>
<tr><td>17</td><td>93M-0473-ACC-6OL00-DWG-50016-C.</td><td>-Same comments as 93M-0473-ACC-6OL00-DWG-50008-C</td></tr>
<tr><td>18</td><td>93M-0473-ACC-6OL00-DWG-50017-C.</td><td>-Same comments as 93M-0473-ACC-6OL00-DWG-50008-C</td></tr>
<tr><td>19</td><td>93M-0473-ACC-6OL00-DWG-50018-C.</td><td>-Same comments as 93M-0473-ACC-6OL00-DWG-50008-C</td></tr>
<tr><td>20</td><td>93M-0473-ACC-6OL00-DWG-50019-C.</td><td>-Same comments as 93M-0473-ACC-6OL00-DWG-50008-C</td></tr>
<tr><td>21</td><td>93M-0473-ACC-6OL00-DWG-50020-C.</td><td>-Same comments as 93M-0473-ACC-6OL00-DWG-50008-C</td></tr>
<tr><td>22</td><td>93M-0473-ACC-6OL00-DWG-50021-C.</td><td>Drawing shall be updated according to the comments on the GA drawing.</td></tr>
</table>

23	93M-0473-ACC-6OL00-DWG-50022-C.	-Same comments as 93M-0473-ACC-6OL00-DWG-50021-C.
24	93M-0473-ACC-6OL00-DWG-50023-C.	-Same comments as 93M-0473-ACC-6OL00-DWG-50021-C.
25	93M-0473-ACC-6OL00-DWG-50024-C.	-Same comments as 93M-0473-ACC-6OL00-DWG-50021-C.
26	93M-0473-ACC-6OL00-DWG-50025-C.	-For all planks assemblies slots and holes size are missing
27	93M-0473-ACC-6OL00-DWG-50026-C.	-For all planks assemblies slots and holes size are missing
28	93M-0473-ACC-6OL00-DWG-50027-C.	-For all planks assemblies slots and holes size are missing
29	93M-0473-ACC-6OL00-DWG-50028-C.	-For all planks assemblies slots and holes size are missing
30	93M-0473-ACC-6OL00-DWG-50029-C.	-For all planks assemblies slots and holes size are missing
31	93M-0473-ACC-6OL00-DWG-50030-C.	-For all planks assemblies slots and holes size are missing
32	93M-0473-ACC-6OL00-DWG-50031-C.	-For all planks assemblies slots and holes size are missing
33	93M-0473-ACC-6OL00-DWG-50032-C.	-For all planks assemblies slots and holes size are missing
34	93M-0473-ACC-6OL00-DWG-50033-C.	-For all planks assemblies slots and holes size are missing
35	93M-0473-ACC-6OL00-DWG-50034-C.	-For all planks assemblies slots and holes size are missing
36	93M-0473-ACC-6OL00-DWG-50035-C.	-For all planks assemblies slots and holes size are missing
37	93M-0473-ACC-6OL00-DWG-50036-C.	-For all planks assemblies slots and holes size are missing
38	93M-0473-ACC-6OL00-DWG-50037-C.	-For all planks assemblies slots and holes size are missing
39	93M-0473-ACC-6OL00-DWG-50038-C.	-For all planks assemblies slots and holes size are missing
40	93M-0473-ACC-6OL00-DWG-50039-C.	-For all planks assemblies slots and holes size are missing
41	93M-0473-ACC-6OL00-DWG-50040-C.	-For all planks assemblies slots and holes size are missing
42	93M-0473-ACC-6OL00-DWG-50041-C.	-For all planks assemblies slots and holes size are missing
43	93M-0473-ACC-6OL00-DWG-50042-C.	-For all planks assemblies slots and holes size are missing
44	93M-0473-ACC-6OL00-DWG-50043-C.	-For all planks assemblies slots and holes size are missing

45	93M-0473-ACC-6OL00-DWG-50044-C.	-For all planks assemblies slots and holes size are missing
46	93M-0473-ACC-6OL00-DWG-50045-C.	-For all planks assemblies slots and holes size are missing
47	93M-0473-ACC-6OL00-DWG-50046-C.	-For all planks assemblies slots and holes size are missing
48	93M-0473-ACC-6OL00-DWG-50047-C.	-For all planks assemblies slots and holes size are missing
49	93M-0473-ACC-6OL00-DWG-50048-C.	-For all planks assemblies slots and holes size are missing
50	93M-0473-ACC-6OL00-DWG-50049-C.	-For all planks assemblies slots and holes size are missing
51	93M-0473-ACC-6OL00-DWG-50050-C.	-For all planks assemblies slots and holes size are missing
52	93M-0473-ACC-6OL00-DWG-50051-C.	-For all planks assemblies slots and holes size are missing
53	93M-0473-ACC-6OL00-DWG-50052-C.	-For all planks assemblies slots and holes size are missing
54	93M-0473-ACC-6OL00-DWG-50053-C.	-For all planks assemblies slots and holes size are missing
55	93M-0473-ACC-6OL00-DWG-50054-C.	-For all planks assemblies slots and holes size are missing
56	93M-0473-ACC-6OL00-DWG-50055-C.	-For all planks assemblies slots and holes size are missing
57	93M-0473-ACC-6OL00-DWG-50056-C.	-For all planks assemblies slots and holes size are missing
58	93M-0473-ACC-6OL00-DWG-50057-C.	-For all planks assemblies slots and holes size are missing
59	93M-0473-ACC-6OL00-DWG-50058-C.	-Add the weld details for this connection. -The connection is not matching with the design reference as shown below.

		 92 379 1*D14 W-103  M16 BOLT (FULLY PRETENSIONED, U.N.O.) 150 75 75 STD GA ANGLE PER PLAN & ELEV. PL w/ 18x40 LSH IPE OR ANGLE POST PER PLAN & ELEV.
60	93M-0473-ACC-6OL00-DWG-50059-C.	-Same comments as 93M-0473-ACC-6OL00-DWG-50058-C.
61	93M-0473-ACC-6OL00-DWG-50060-C.	-Same comments as 93M-0473-ACC-6OL00-DWG-50058-C.
62	93M-0473-ACC-6OL00-DWG-50061-C.	-Same comments as 93M-0473-ACC-6OL00-DWG-50058-C.
63	93M-0473-ACC-6OL00-DWG-50062-C.	-Same comments as 93M-0473-ACC-6OL00-DWG-50058-C.
64	93M-0473-ACC-6OL00-DWG-50063-C.	-Same comments as 93M-0473-ACC-6OL00-DWG-50058-C.
65	93M-0473-ACC-6OL00-DWG-50064-C.	-Same comments as 93M-0473-ACC-6OL00-DWG-50058-C. -This part mark is not shown in the material list table. 

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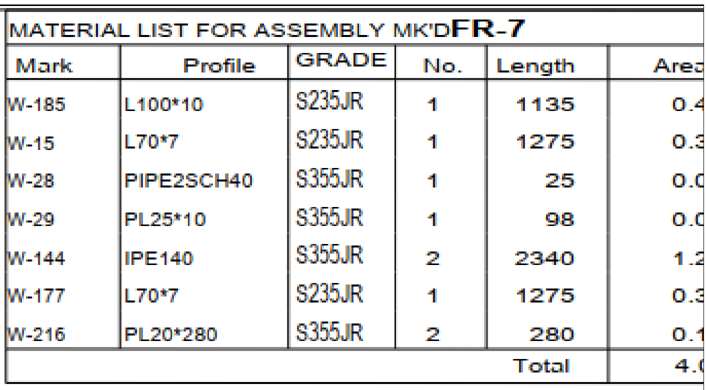
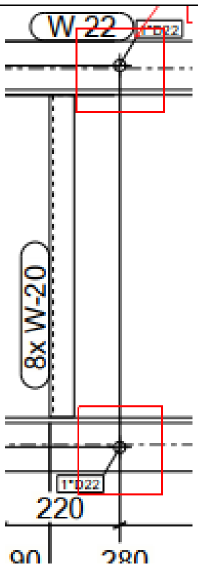
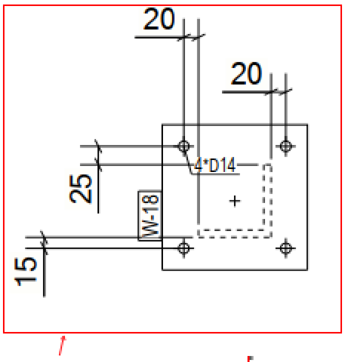
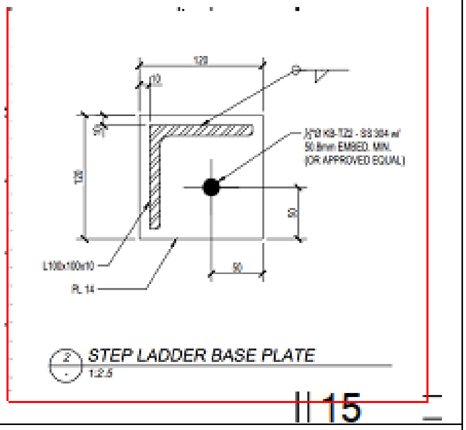
<tr><td></td><td></td><td>
<table>
<tr><th colspan="6">MATERIAL LIST FOR ASSEMBLY MK'DFR-7</th></tr>
<tr><th>Mark</th><th>Profile</th><th>GRADE</th><th>No.</th><th>Length</th><th>Are</th></tr>
<tr><td>W-185</td><td>L100*10</td><td>S235JR</td><td>1</td><td>1135</td><td>0.4</td></tr>
<tr><td>W-15</td><td>L70*7</td><td>S235JR</td><td>1</td><td>1275</td><td>0.3</td></tr>
<tr><td>W-28</td><td>PIPE2SCH40</td><td>S355JR</td><td>1</td><td>25</td><td>0.0</td></tr>
<tr><td>W-29</td><td>PL25*10</td><td>S355JR</td><td>1</td><td>98</td><td>0.0</td></tr>
<tr><td>W-144</td><td>IPE140</td><td>S355JR</td><td>2</td><td>2340</td><td>1.2</td></tr>
<tr><td>W-177</td><td>L70*7</td><td>S235JR</td><td>1</td><td>1275</td><td>0.3</td></tr>
<tr><td>W-216</td><td>PL20*280</td><td>S355JR</td><td>2</td><td>280</td><td>0.1</td></tr>
<tr><td colspan="5">Total</td><td>4.</td></tr>
</table></td></tr>
<tr><td>66</td><td>93M-0473-ACC-6OL00-DWG-50065-C.</td><td>-Same comments as 93M-0473-ACC-6OL00-DWG-50058-C.</td></tr>
<tr><td>67</td><td>93M-0473-ACC-6OL00-DWG-50066-C.</td><td>Same comments as 93M-0473-ACC-6OL00-DWG-50058-C.</td></tr>
<tr><td>68</td><td>93M-0473-ACC-6OL00-DWG-50067-C.</td><td>Same comments as 93M-0473-ACC-6OL00-DWG-50058-C.</td></tr>
<tr><td>69</td><td>93M-0473-ACC-6OL00-DWG-50068-C.</td><td>Same comments as 93M-0473-ACC-6OL00-DWG-50058-C.</td></tr>
<tr><td>70</td><td>93M-0473-ACC-6OL00-DWG-50069-C.</td><td>Same comments as 93M-0473-ACC-6OL00-DWG-50058-C.</td></tr>
<tr><td>71</td><td>93M-0473-ACC-6OL00-DWG-50070-C.</td><td>Same comments as 93M-0473-ACC-6OL00-DWG-50058-C.</td></tr>
<tr><td>72</td><td>93M-0473-ACC-6OL00-DWG-50071-C.</td><td>Same comments as 93M-0473-ACC-6OL00-DWG-50058-C.</td></tr>
<tr><td>73</td><td>93M-0473-ACC-6OL00-DWG-50072-C.</td><td>Same comments as 93M-0473-ACC-6OL00-DWG-50058-C.</td></tr>
<tr><td>74</td><td>93M-0473-ACC-6OL00-DWG-50073-C.</td><td>Same comments as 93M-0473-ACC-6OL00-DWG-50058-C.</td></tr>
<tr><td>75</td><td>93M-0473-ACC-6OL00-DWG-50074-C.</td><td>Drawing shall be updated according to the comments on the GA drawing.</td></tr>
<tr><td>76</td><td>93M-0473-ACC-6OL00-DWG-50075-C.</td><td>Drawing shall be updated according to the comments on the GA drawing.</td></tr>
<tr><td>77</td><td>93M-0473-ACC-6OL00-DWG-50076-C.</td><td>Drawing shall be updated according to the comments on the GA drawing.</td></tr>
<tr><td>78</td><td>93M-0473-ACC-6OL00-DWG-50077-C.</td><td>Drawing shall be updated according to the comments on the GA drawing.</td></tr>
<tr><td>79</td><td>93M-0473-ACC-6OL00-DWG-50078-C.</td><td>Drawing shall be updated according to the comments on the GA drawing.</td></tr>
<tr><td>80</td><td>93M-0473-ACC-6OL00-DWG-50079-C.</td><td>Drawing shall be updated according to the comments on the GA drawing.</td></tr>
<tr><td>81</td><td>93M-0473-ACC-6OL00-DWG-50080-C.</td><td>Drawing shall be updated according to the comments on the GA drawing.</td></tr>
</table>

82	93M-0473-ACC-6OL00-DWG-50081-C.	Drawing shall be updated according to the comments on the GA drawing.
83	93M-0473-ACC-6OL00-DWG-50082-C.	Drawing shall be updated according to the comments on the GA drawing.
84	93M-0473-ACC-6OL00-DWG-50083-C.	Drawing shall be updated according to the comments on the GA drawing.
85	93M-0473-ACC-6OL00-DWG-50084-C.	Drawing shall be updated according to the comments on the GA drawing.
86	93M-0473-ACC-6OL00-DWG-50085-C.	Drawing shall be updated according to the comments on the GA drawing.
87	93M-0473-ACC-6OL00-DWG-50086-C.	Drawing shall be updated according to the comments on the GA drawing.
88	93M-0473-ACC-6OL00-DWG-50087-C.	Drawing shall be updated according to the comments on the GA drawing.
89	93M-0473-ACC-6OL00-DWG-50088-C.	Drawing shall be updated according to the comments on the GA drawing.
90	93M-0473-ACC-6OL00-DWG-50089-C.	Drawing shall be updated according to the comments on the GA drawing.
91	93M-0473-ACC-6OL00-DWG-50090-C.	Drawing shall be updated according to the comments on the GA drawing.
92	93M-0473-ACC-6OL00-DWG-50091-C.	Drawing shall be updated according to the comments on the GA drawing.
93	93M-0473-ACC-6OL00-DWG-50092-C.	Drawing shall be updated according to the comments on the GA drawing.
94	93M-0473-ACC-6OL00-DWG-50093-C.	Drawing shall be updated according to the comments on the GA drawing.
95	93M-0473-ACC-6OL00-DWG-50094-C.	Drawing shall be updated according to the comments on the GA drawing.
96	93M-0473-ACC-6OL00-DWG-50095-C.	This hole size is not matching with the design reference. refer to the comments on dwg.93M-0473-ACC-6OL00-DWG-50014-B

<table>
<tr><td></td><td></td><td>

W 22
1*D22
8x W-20
1*D22
220
90
280

This detail is not matching with the design drawings as shown below.


20
20
4*D14
25
W-18
15


120
10
20
120
½"Ø KB-TZ2 - SS 304 w/ 50.8mm EMBED. MIN. (OR APPROVED EQUAL)
50
50
L100x100x10
PL 14
2
STEP LADDER BASE PLATE
1:2.5
15
</td></tr>
<tr><td>97</td><td>93M-0473-ACC-6OL00-DWG-50096-C.</td><td>Same comments as 93M-0473-ACC-6OL00-DWG-50096-C</td></tr>
<tr><td>98</td><td>93M-0473-ACC-6OL00-DWG-50097-C.</td><td>Same comments as 93M-0473-ACC-6OL00-DWG-50096-C</td></tr>
<tr><td>99</td><td>93M-0473-ACC-6OL00-DWG-50098-C.</td><td>Same comments as 93M-0473-ACC-6OL00-DWG-50100-C.</td></tr>
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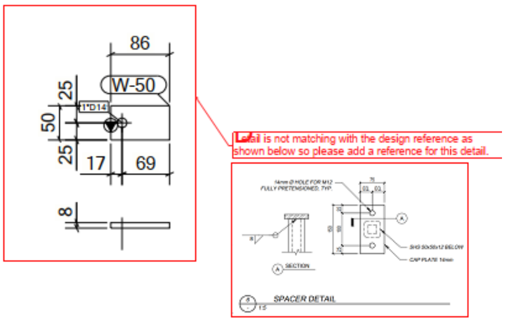
100	93M-0473-ACC-6OL00-DWG-50099-C.	Drawing shall be updated according to the comments on the GA drawing.
101	93M-0473-ACC-6OL00-DWG-50100-C.	Drawing shall be updated according to the comments on the GA drawing. Detail is not matching with the design reference as shown below so please add a reference for this detail.  86 W-50 25 1*D14 50 25 17 69 8 ail is not matching with the design reference as shown below so please add a reference for this detail. 14mm Ø HOLE FOR M12 FULLY PRETENSIONED, TYP. A SHS 50x50x12 BELOW CAP PLATE 16mm A SECTION SPACER DETAIL
102	93M-0473-ACC-6OL00-DWG-50101-C.	Same comments as 93M-0473-ACC-6OL00-DWG-50100-C.
103	93M-0473-ACC-6OL00-DWG-50102-C.	Same comments as 93M-0473-ACC-6OL00-DWG-50100-C.
104	93M-0473-ACC-6OL00-DWG-50103-C.	Same comments as 93M-0473-ACC-6OL00-DWG-50100-C.
105	93M-0473-ACC-6OL00-DWG-50104-C.	Same comments as 93M-0473-ACC-6OL00-DWG-50100-C.
106	93M-0473-ACC-6OL00-DWG-50105-C.	Same comments as 93M-0473-ACC-6OL00-DWG-50100-C.
107	93M-0473-ACC-6OL00-DWG-50106-C.	Drawing shall be updated according to the comments on the GA drawing.
108	93M-0473-ACC-6OL00-DWG-50107-C.	Drawing shall be updated according to the comments on the GA drawing.
109	93M-0473-ACC-6OL00-DWG-50108-C.	Drawing shall be updated according to the comments on the GA drawing.
110	93M-0473-ACC-6OL00-DWG-50109-C.	Drawing shall be updated according to the comments on the GA drawing.
111	93M-0473-ACC-6OL00-DWG-50110-C.	Drawing shall be updated according to the comments on the GA drawing.
112	93M-0473-ACC-6OL00-DWG-50111-C.	Drawing shall be updated according to the comments on the GA drawing.
113	93M-0473-ACC-6OL00-DWG-50112-C.	Drawing shall be updated according to the comments on the GA drawing.
114	93M-0473-ACC-6OL00-DWG-50113-C.	Drawing shall be updated according to the comments on the GA drawing.

115	93M-0473-ACC-6OL00-DWG-50114-C.	Drawing shall be updated according to the comments on the GA drawing.
116	93M-0473-ACC-6OL00-DWG-50115-C.	Drawing shall be updated according to the comments on the GA drawing.
117	93M-0473-ACC-6OL00-DWG-50116-C.	Drawing shall be updated according to the comments on the GA drawing.
118	93M-0473-ACC-6OL00-DWG-50117-C.	Drawing shall be updated according to the comments on the GA drawing.

DOCUMENT NUMBER	Title	C.REV	Date	Status
93M-0473-ACC-6OL00-DWG-50000	COVER SHEET 1/1	C	07.05.2024	IFI
93M-0473-ACC-6OL00-DWG-50001	3DView	C	07.05.2024	IFI
93M-0473-ACC-6OL00-DWG-50002	Steel Plan01	C	07.05.2024	IFI
93M-0473-ACC-6OL00-DWG-50003	Steel Sections01	C	07.05.2024	IFI
93M-0473-ACC-6OL00-DWG-50004	CHQ Plan01	C	07.05.2024	IFI
93M-0473-ACC-6OL00-DWG-50005	Handrail Plan01	C	07.05.2024	IFI
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93M-0473-ACC-6OL00-DWG-50012	B-7	C	07.05.2024	IFI
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93M-0473-ACC-6OL00-DWG-50117	VB-13	C	07.05.2024	IFI

REVIEWED WITH
COMMENT
MONORAILS PROJECT

General notes for all details:
- It is the contractor responsibility to ensure and revise all Dimensions and levels with the approved design drawings besides the coordination package before commencing any site Works.
-For all the GA & assembly drawings: the weld details(type , Symbol,……) of all connections shall be provided.
-The embedded length of anchors shall be provided.

This workshop drawings package is to be read in conjunction with the attachments in the folder of the workshop drawing no. (93M-0473-ACC-6OL00-DWG-50000-C) .

6 October Monorail
Engineering Unit
Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
3	
4	
5	
6	
7	
8	
9	

6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority

Hill International
Consultant

Main Contractor

Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS
C	07.05.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
B	22.04.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
A	22.02.2023	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI

DRAWING TITLE
6TH OF OCTOBER MONORAIL
GA0000
LINE SEGMENT (L00) Switch Deck

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
9 3 M	0 4 7 3	A C C	6 0 L 0 0	D W G	5 0 0 0 0	C

Tekla Structures

REVIEWED WITH
COMMENT
MONORAILS PROJECT

-Approval is subject to approval of coordination package between multi-disciplines.

Station Side
A
B
C
D
E
2
Line Side
1

3d

6 October Monorail
Engineering Unit
Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
3	
4	
5	
6	
7	
8	
9	

6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority

Hill International
Consultant

Main Contractor

Structural Designer

KEY PLAN:

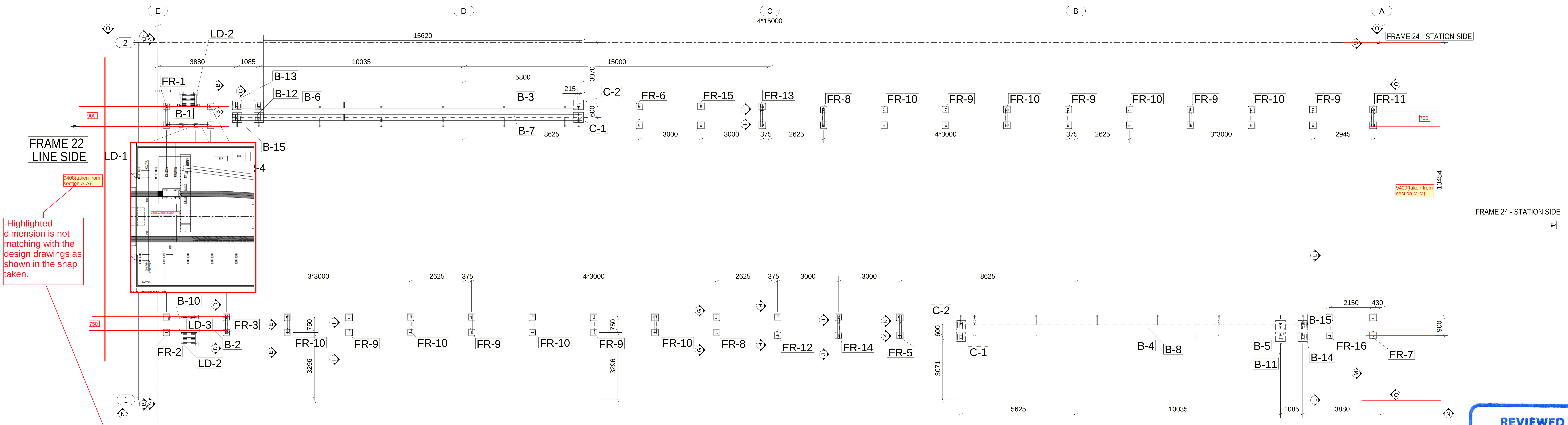
SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS
C	07.05.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
B	22.04.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
A	22.02.2023	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI

DRAWING TITLE
6TH OF OCTOBER MONORAIL
GA0101
LINE SEGMENT (L00) Switch Deck

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
9 3 M	0 4 7 3	A C C	6 0 L 0 0	D W G	5 0 0 0 1	C

Tekla Structures


E
D
C
B
A
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15000
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1085
10035
5800
215
3070
600
2
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LD-2
LD-3
FR-1
FR-2
FR-3
FR-6
FR-7
FR-8
FR-9
FR-10
FR-11
FR-12
FR-13
FR-14
FR-15
FR-16
B-1
B-2
B-3
B-4
B-5
B-6
B-7
B-8
B-10
B-11
B-12
B-13
B-14
B-15
C-1
C-2
8625
3000
375
2625
4*3000
3*3000
2945
13454
750
3296
3071
5625
2150
430
900
FRAME 24 - STATION SIDE
FRAME 22
LINE SIDE
SCP
PDP
SWITCH
4707+4789=9,496

900

750

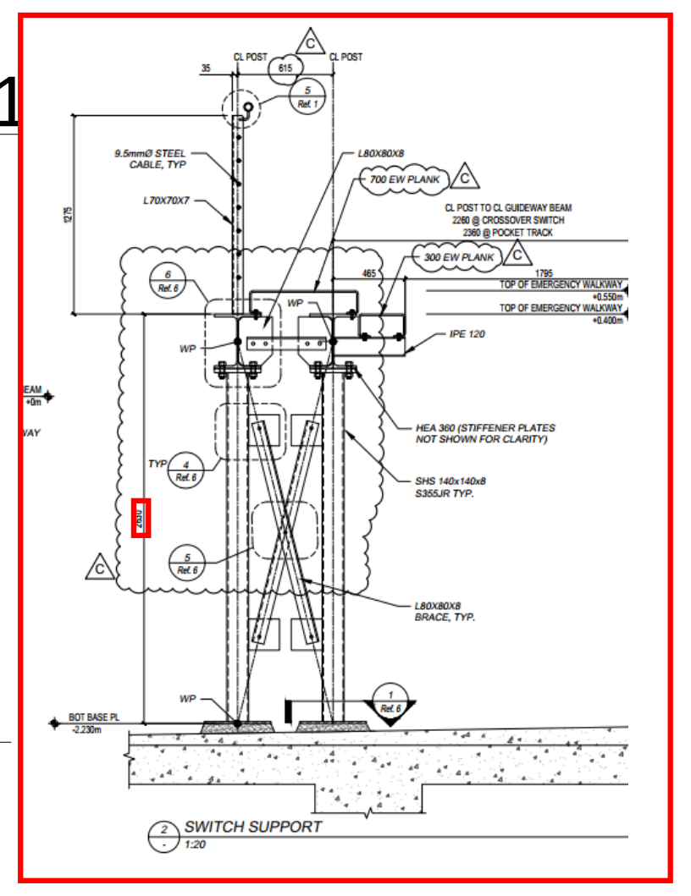
9408(taken from section A-A)

9409(taken from section M-M)

750

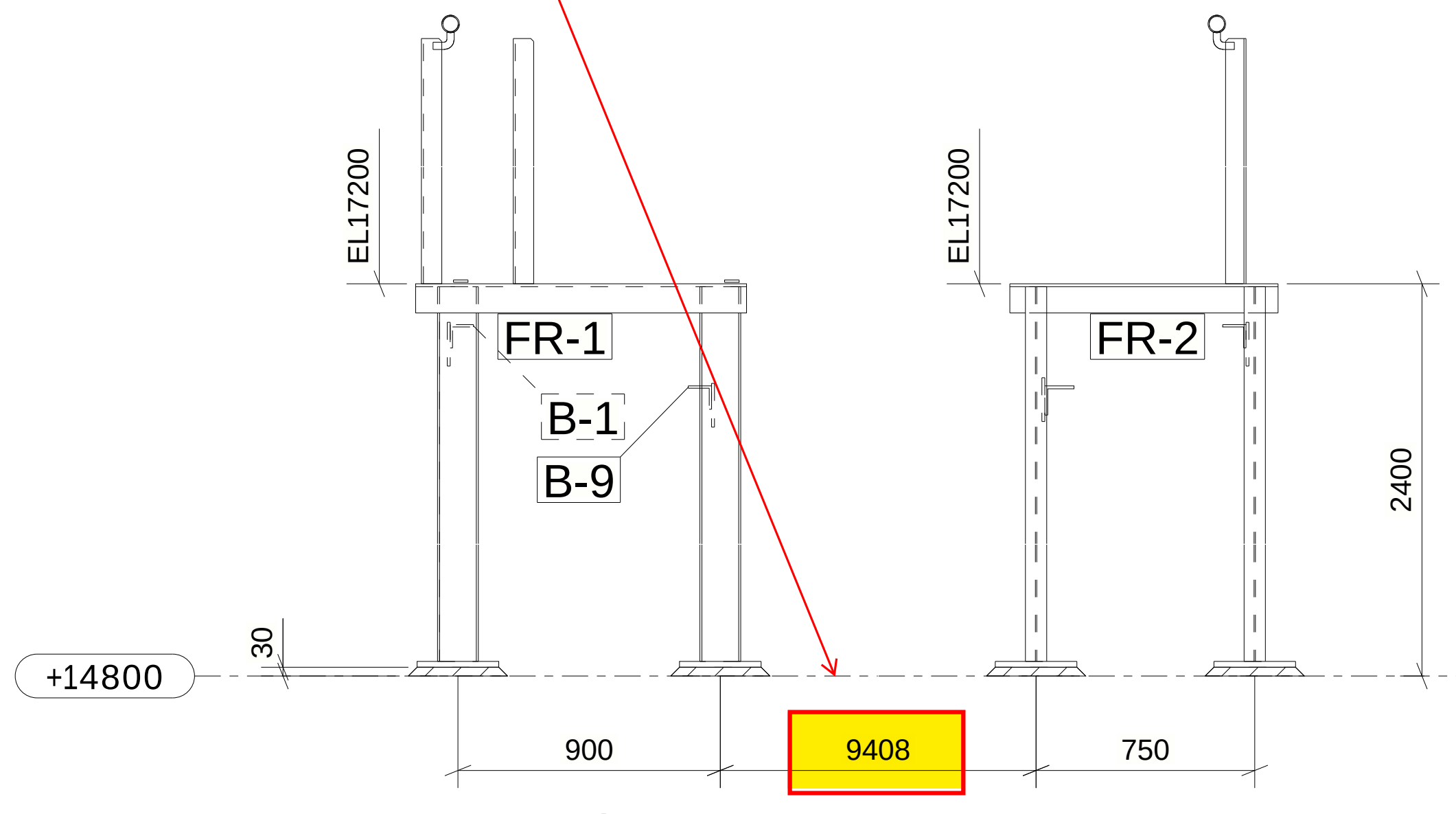
-Highlighted dimension is not matching with the design drawings as shown in the snap taken.

3d
Scale: 1

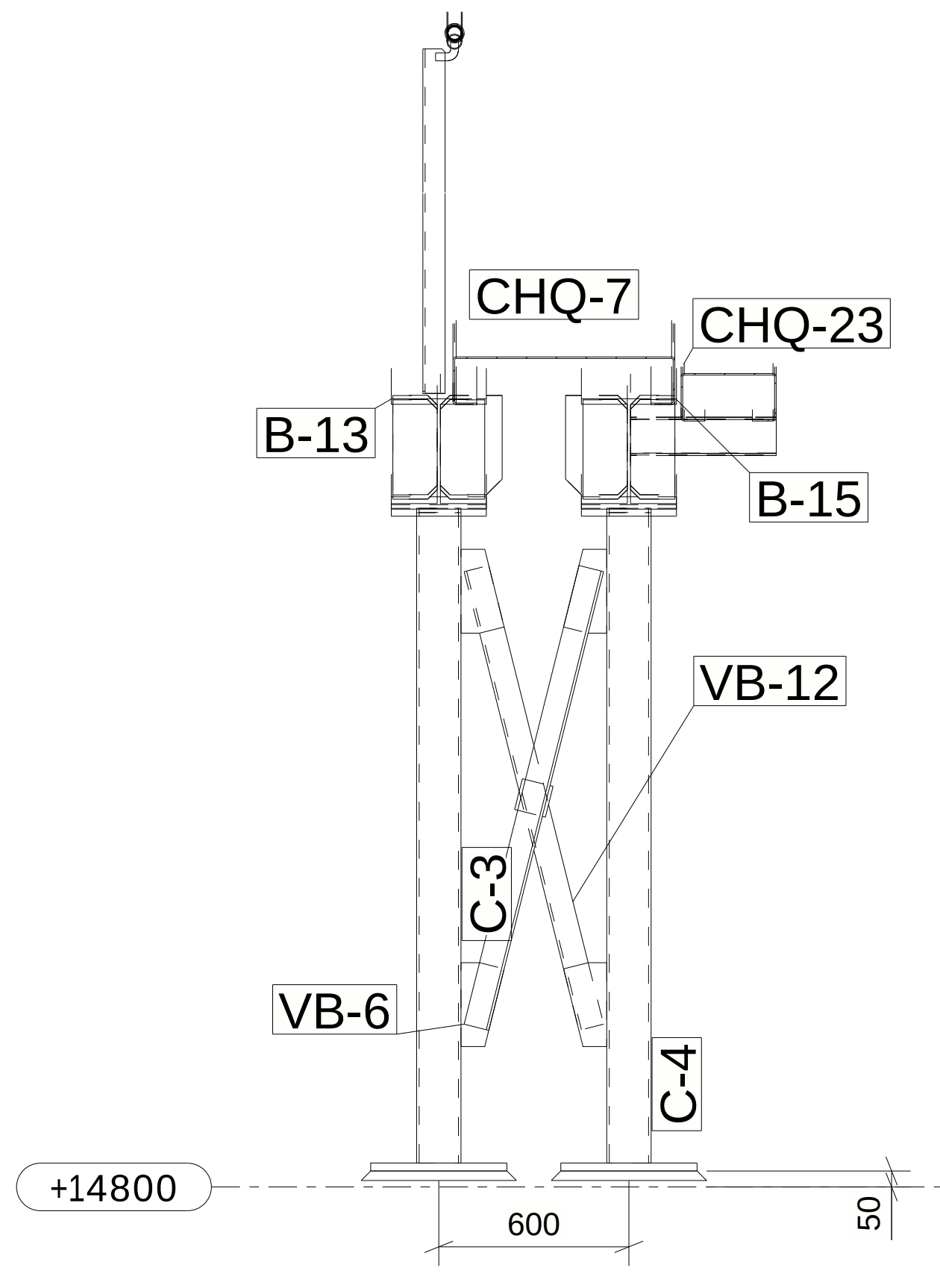

CL POST
CL POST
35
615
5
Ref. 1
9.5mmØ STEEL CABLE, TYP
L70X70X7
L80X80X8
700 EW PLANK
C
CL POST TO CL GUIDEWAY BEAM
2260 @ CROSSOVER SWITCH
2360 @ POCKET TRACK
300 EW PLANK
1275
465
1795
TOP OF EMERGENCY WALKWAY +0.550m
TOP OF EMERGENCY WALKWAY +0.400m
6
Ref. 6
WP
IPE 120
HEA 360 (STIFFENER PLATES NOT SHOWN FOR CLARITY)
SHS 140x140x8 S355JR TYP.
TYP
4
Ref. 6
2630
5
Ref. 6
L80X80X8 BRACE, TYP.
BOT BASE PL -2.230m
1
Ref. 6
2
SWITCH SUPPORT
1:20

REVIEWED WITH COMMENT
MONORAILS PROJECT

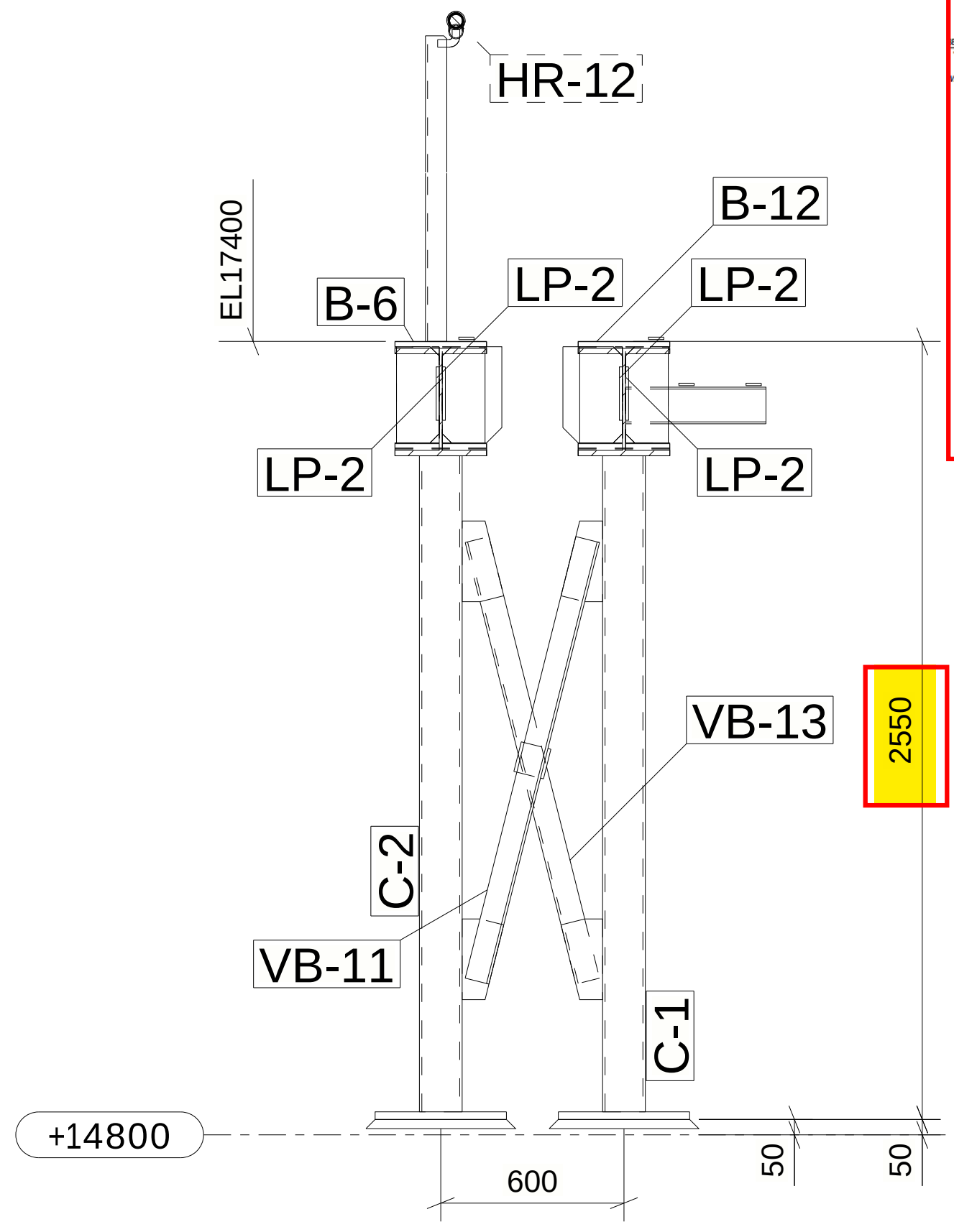
-Please add the Main line and station line axes as they are shown in the design references then refer all the other axes (from A to E) to them.
-Highlighted dimensions are not matching with the design drawings as shown in the snaps taken below.
-Please show the planks on the sections of the GA drawings with their levels.


EL17200
EL17200
FR-1
B-1
B-9
FR-2
2400
30
+14800
900
9408
750

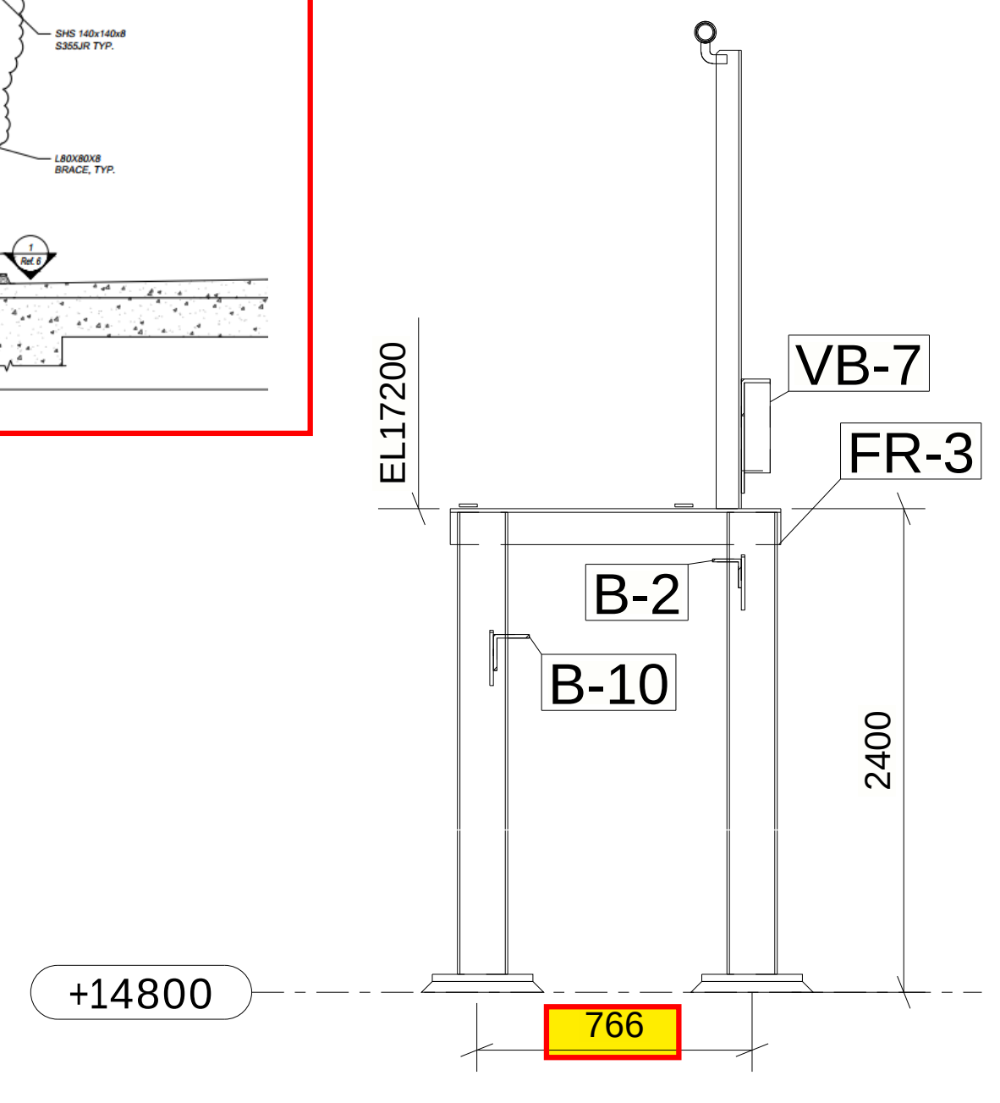
SECTION : A - A
SCALE 1:30


CHQ-7
CHQ-23
B-13
B-15
VB-12
C-3
VB-6
C-4
+14800
600
50

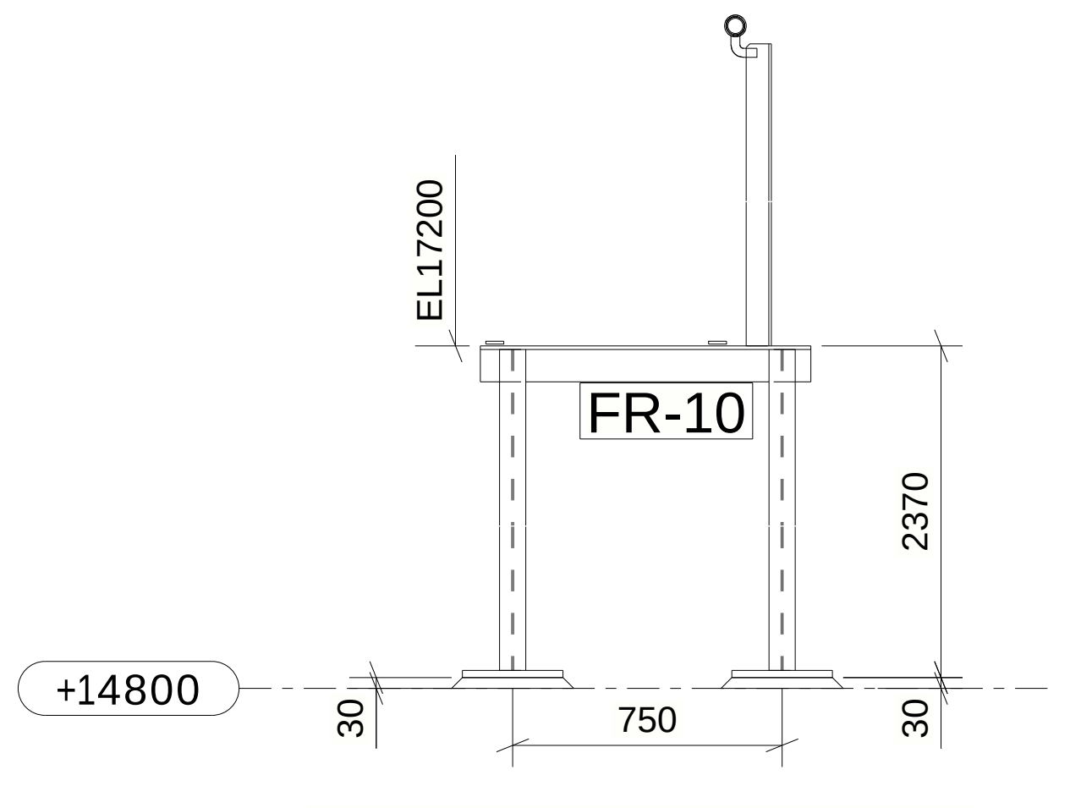
SECTION : B - B
SCALE 1:30


EL17400
HR-12
B-12
B-6
LP-2
LP-2
LP-2
LP-2
VB-13
2550
C-2
VB-11
C-1
+14800
600
50
50

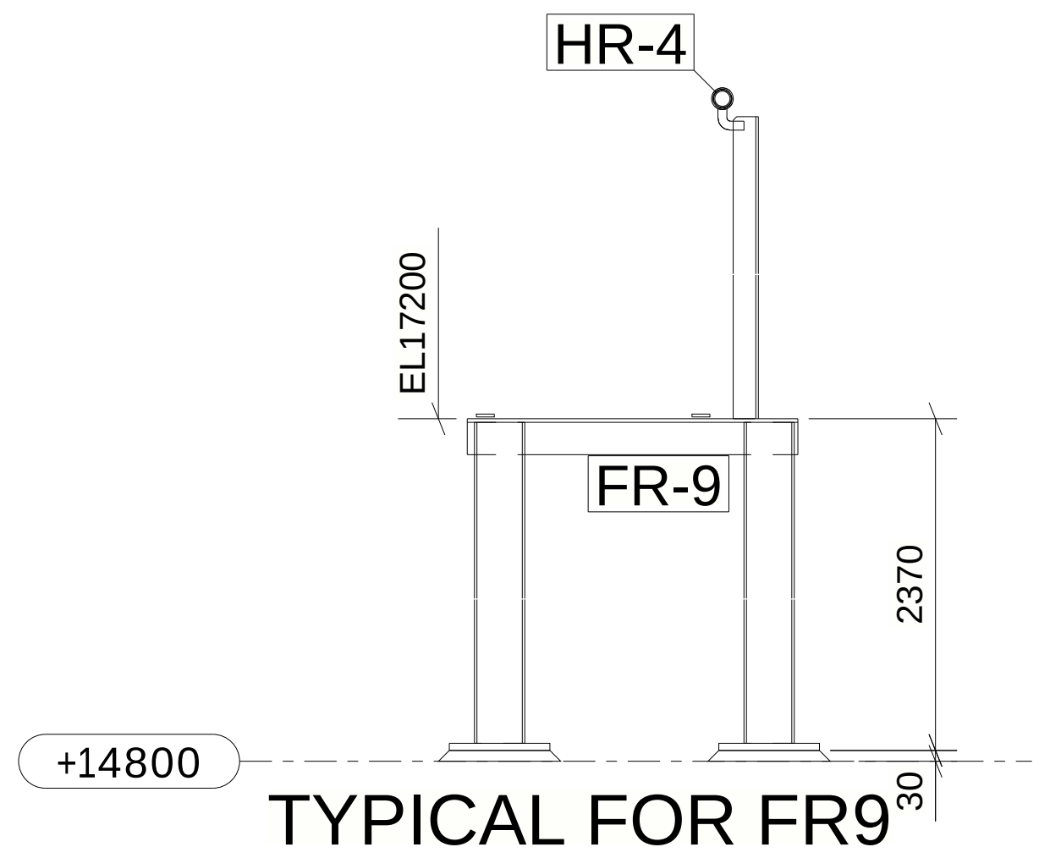
SECTION : C - C
SCALE 1:30


EL17200
VB-7
FR-3
B-2
B-10
2400
+14800
766

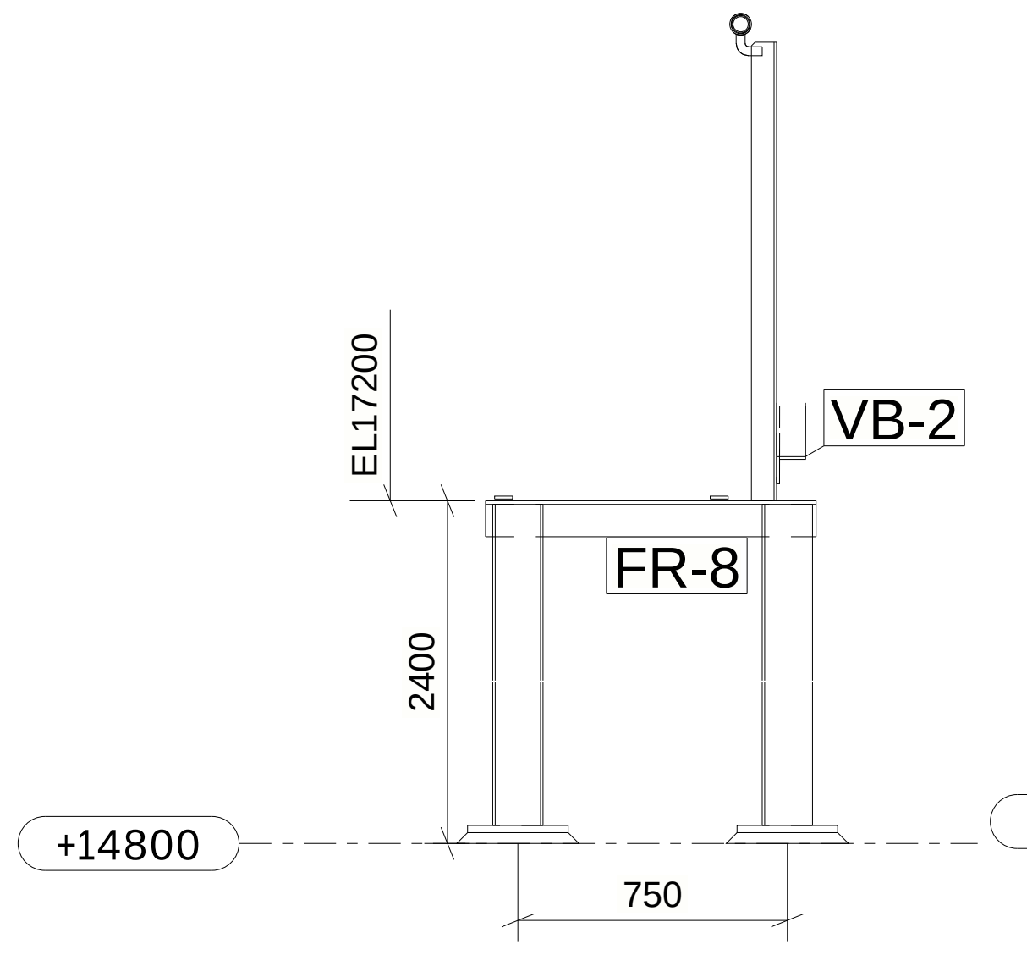
SECTION : D - D
SCALE 1:30


EL17200
FR-10
2370
+14800
30
750
30

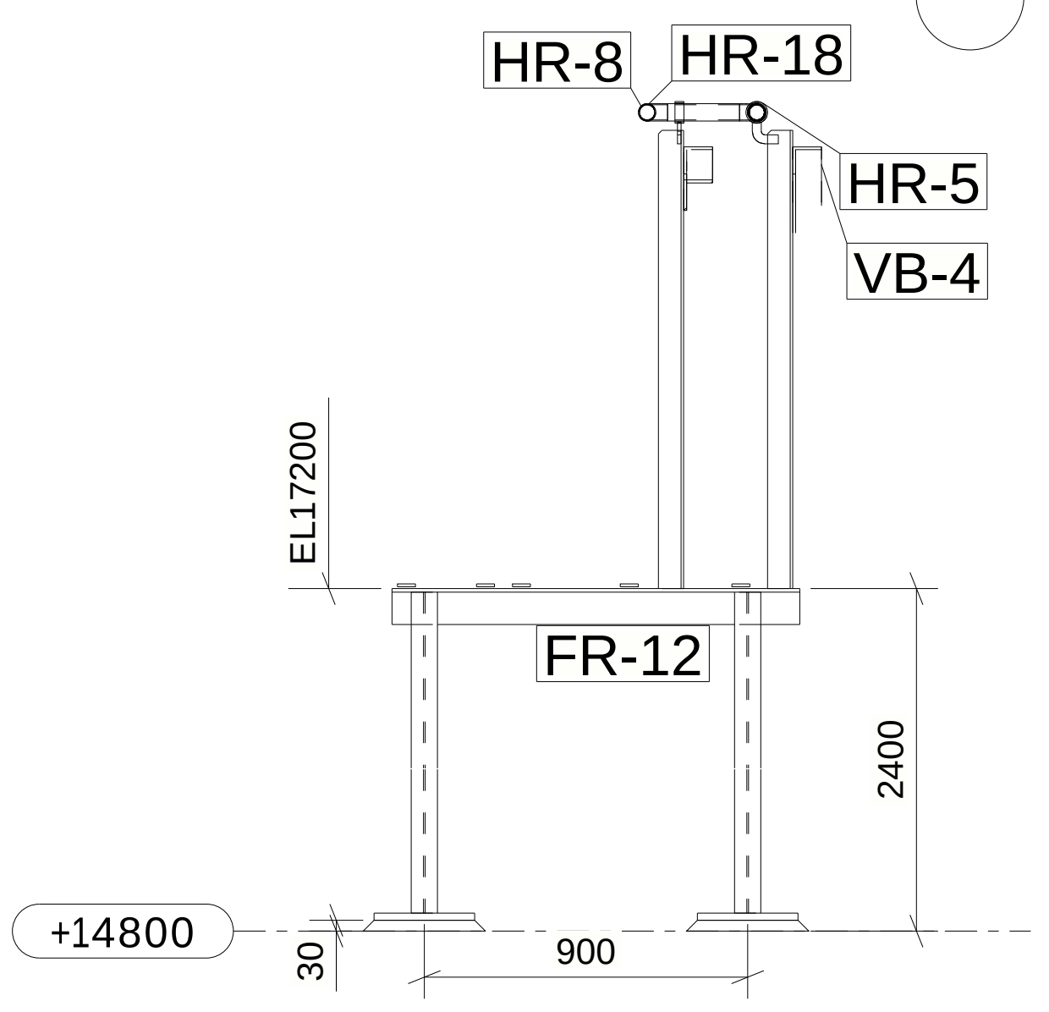
TYPICAL FOR FR10
SECTION : E - E
SCALE 1:30


HR-4
EL17200
FR-9
2370
+14800
30

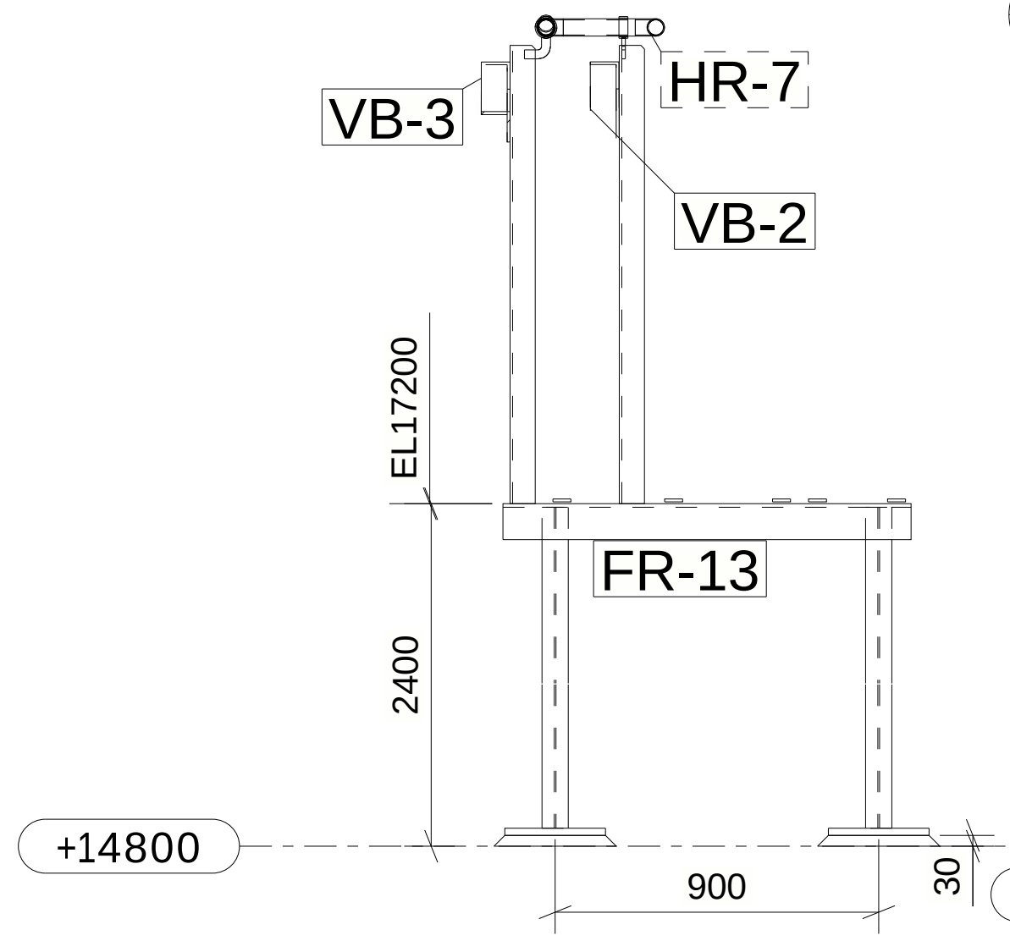
TYPICAL FOR FR9
SECTION : F - F
SCALE 1:30


EL17200
VB-2
FR-8
2400
+14800
750

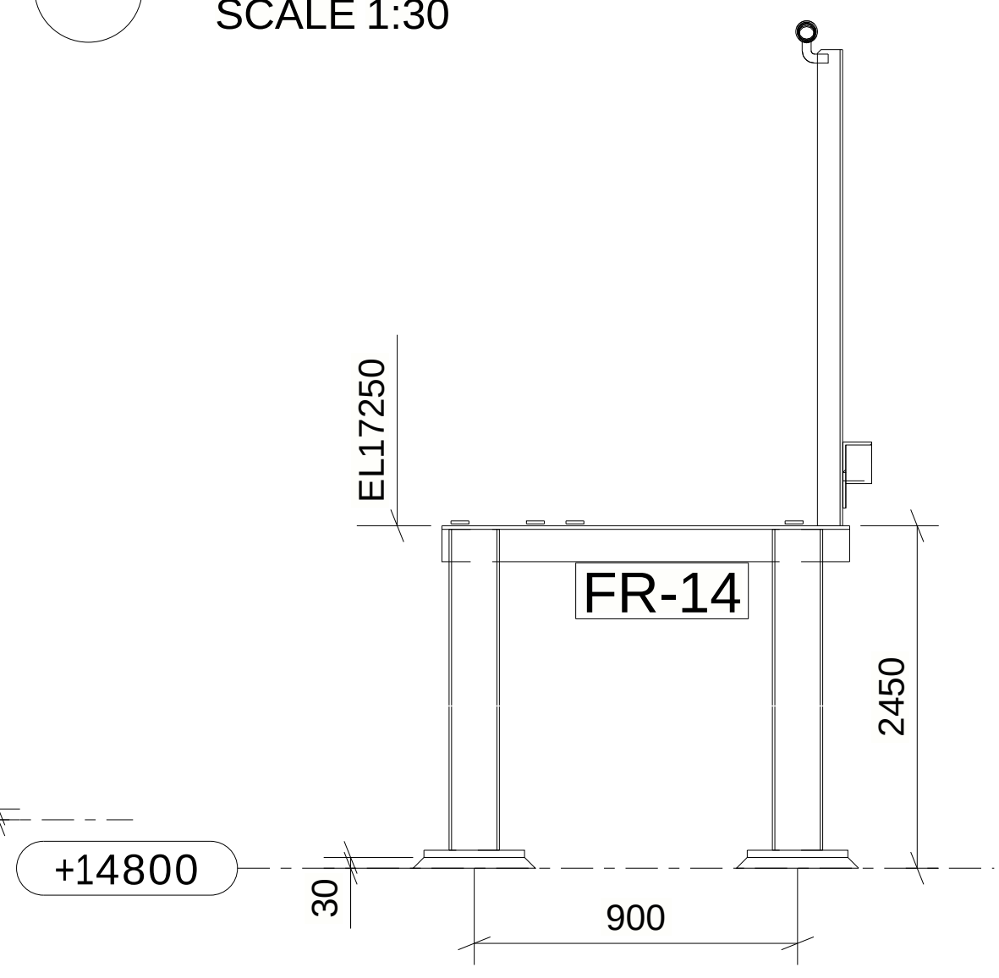
TYPICAL FOR FR8
SECTION : G - G
SCALE 1:30


HR-8
HR-18
HR-5
VB-4
EL17200
FR-12
2400
+14800
30
900

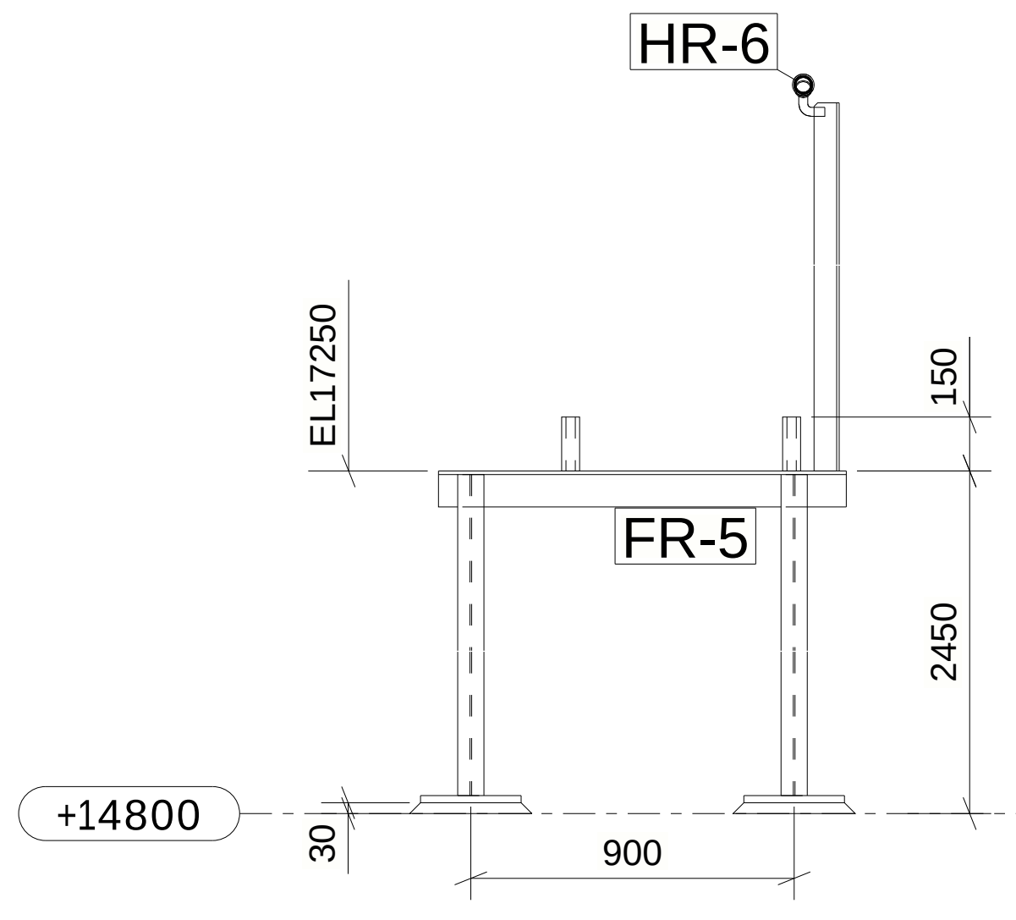
TYPICAL FOR FR12
SECTION : H - H
SCALE 1:30


VB-3
HR-7
VB-2
EL17200
FR-13
2400
+14800
900
30

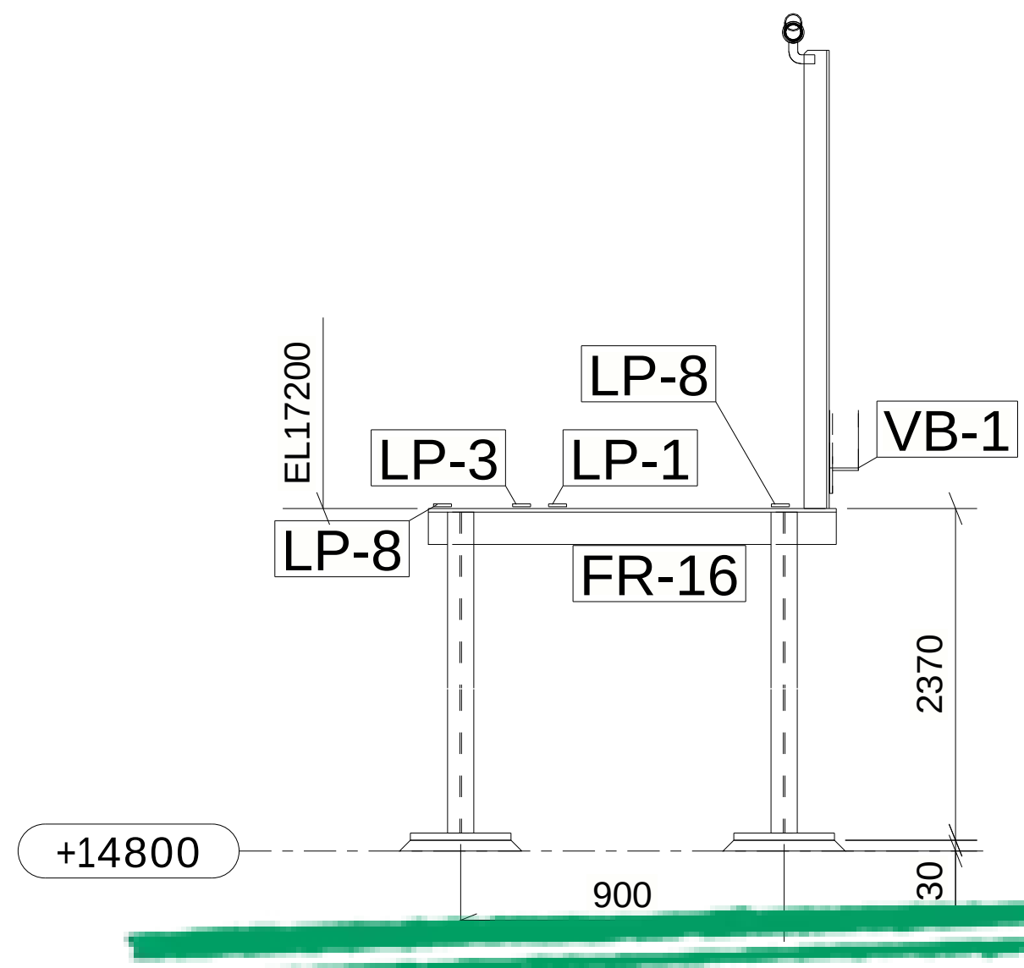
SECTION : I - I
SCALE 1:30


EL17250
FR-14
2450
+14800
30
900

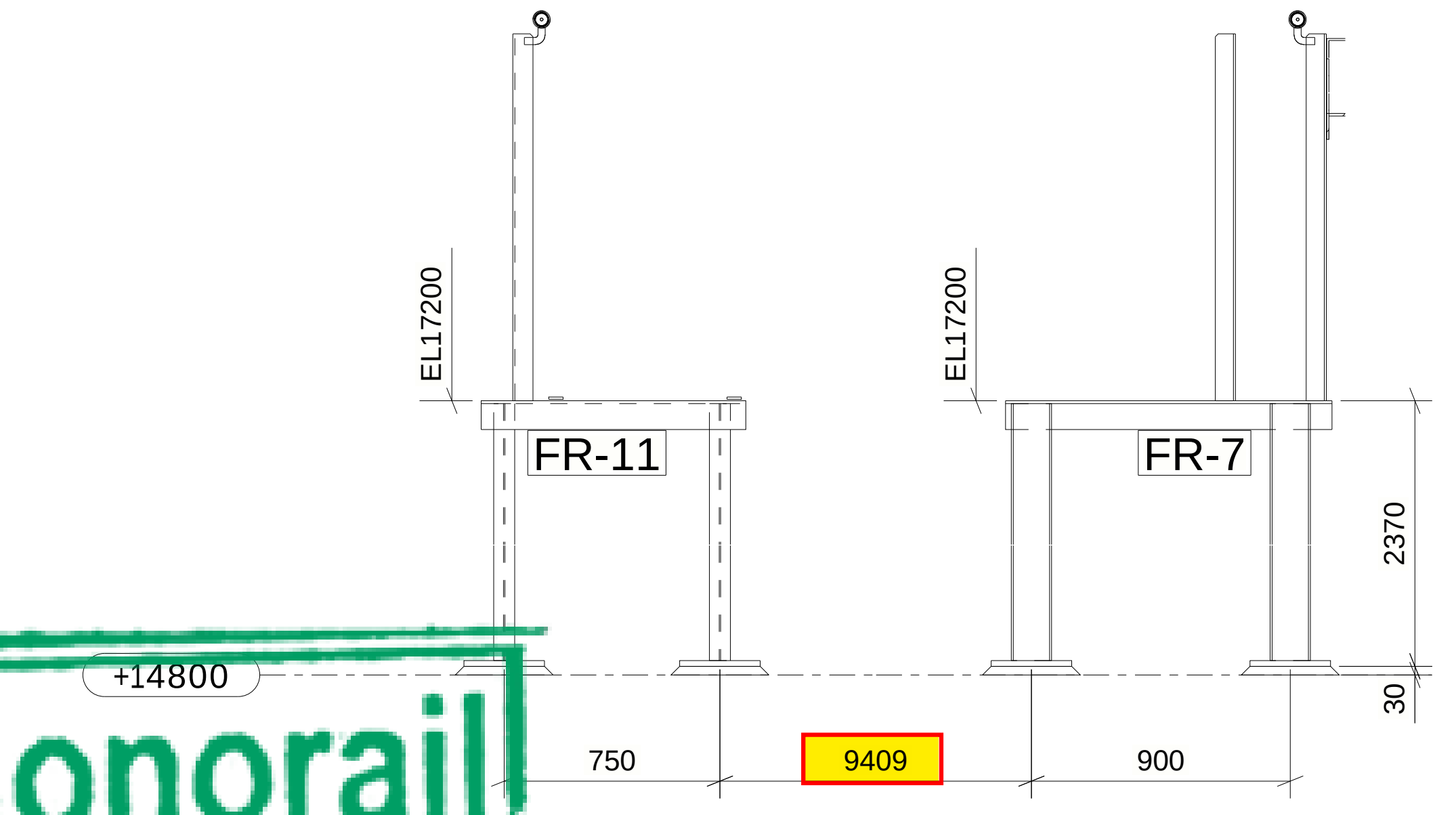
SECTION : J - J
SCALE 1:30


HR-6
EL17250
150
FR-5
2450
+14800
30
900

SECTION : K - K
SCALE 1:30


EL17200
LP-8
LP-3
LP-1
LP-8
VB-1
FR-16
2370
+14800
900
30

SECTION : L - L
SCALE 1:30


EL17200
EL17200
FR-11
FR-7
2370
+14800
30
750
9409
900

SECTION : M - M
SCALE 1:30

6 October Monorail
Engineering Unit
Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
3	
4	
5	
6	
7	
8	
9	

6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority

Hill International
Consultant

Main Contractor

Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS
C	07.05.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
B	22.04.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
A	22.02.2023	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI

DRAWING TITLE
6TH OF OCTOBER MONORAIL
GA0202
LINE SEGMENT (L00) Switch Deck

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
93M	0473	ACC	60L00	DWG	50002	C

Tekla Structures

Drawing shall be updated accordingto the comments on the GA drawing.

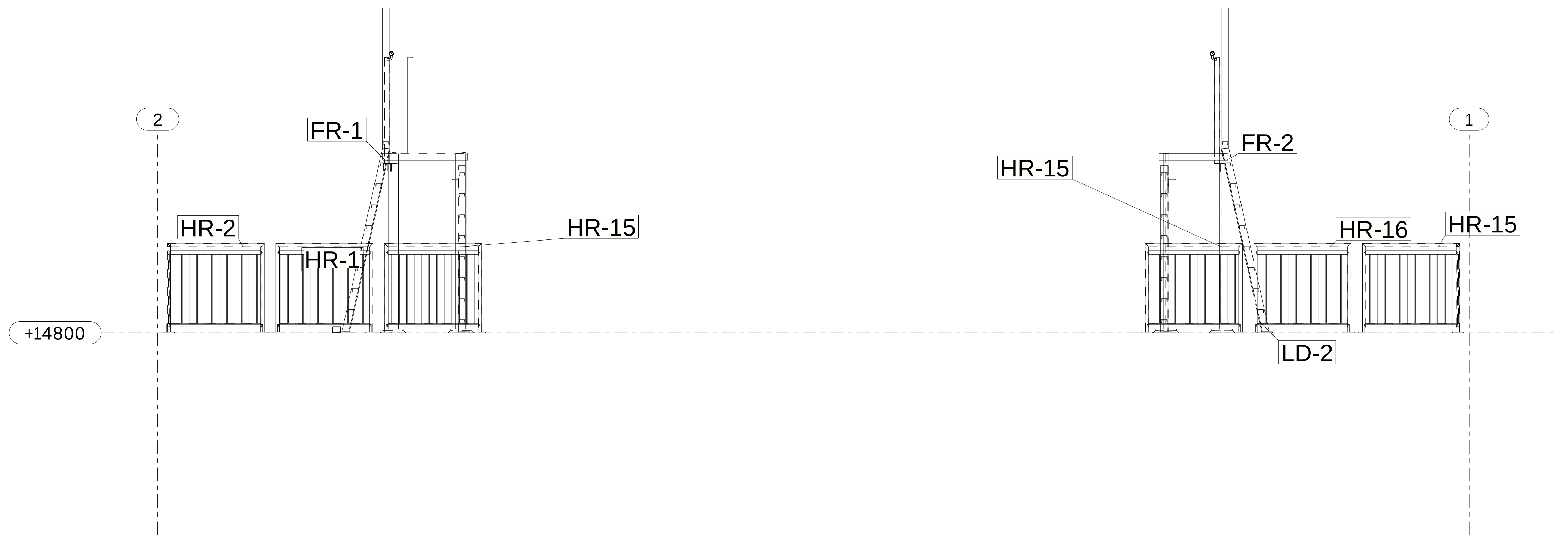
REVIEWED WITH COMMENT MONORAILS PROJECT

D
C
B
A
VB-1
B-11
B-14
B-5
VB-5
B-7
HR-4
HR-9
HR-8
HR-5
HR-6
HR-11
B-10
HR-15
VB-2
VB-4
LP-4
VB-10
B-15
B-4
B-8
C-3
C-2
VB-5
+14800
B-2
VB-6
C-1
VB-11
FRAME 22 LINE SIDE
FRAME 24 STATION SIDE

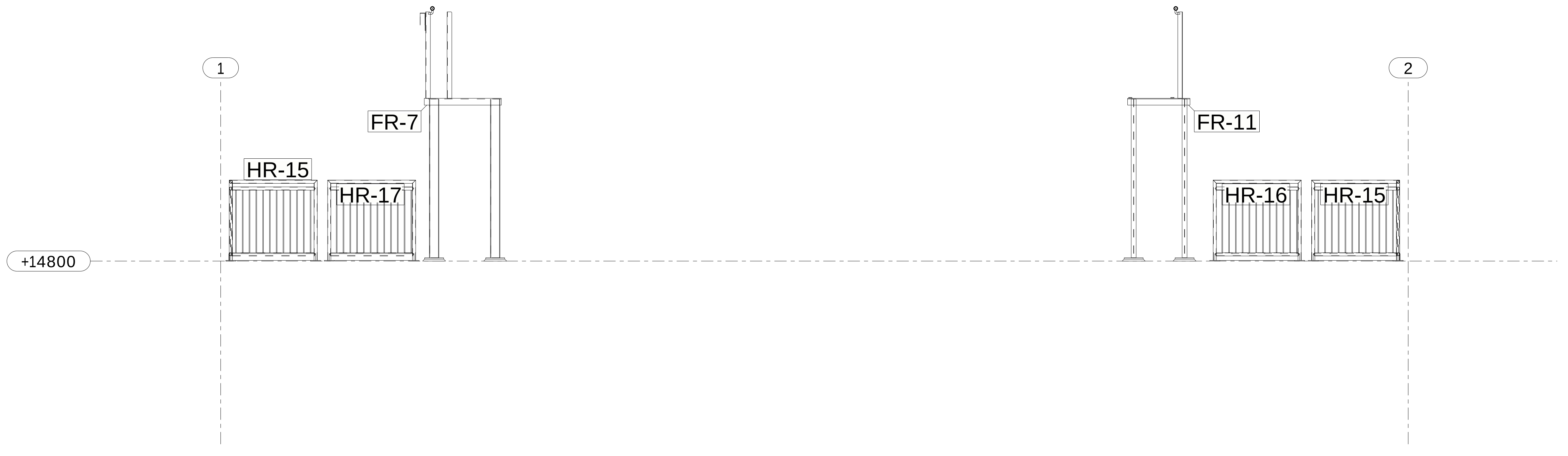
SECTION : N - N
SCALE 1:80

A
B
C
D
E
B-13
VB-8
HR-14
HR-9
HR-7
HR-12
HR-13
LD-2
VB-2
VB-3
LP-5
B-3
B-7
B-6
B-12
HR-2
VB-6
B-9
HR-3
LD-1
B-1
+14800
VB-12
C-1
C-2
FRAME 24 STATION SIDE
FRAME 22 LINE SIDE

SECTION : O - O
SCALE 1:80


2
1
FR-1
HR-2
HR-1
HR-15
FR-2
HR-16
LD-2
+14800

SECTION : P - P
SCALE 1:60


1
2
FR-7
HR-15
HR-17
FR-11
HR-16
+14800

SECTION : Q - Q
SCALE 1:60

6 October Monorail
Engineering Unit
Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
3	
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8	
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority

Hill International
Consultant

Main Contractor

Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS
C	07.05.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
B	22.04.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
A	22.02.2023	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI

DRAWING TITLE

6TH OF OCTOBER MONORAIL
GA0303

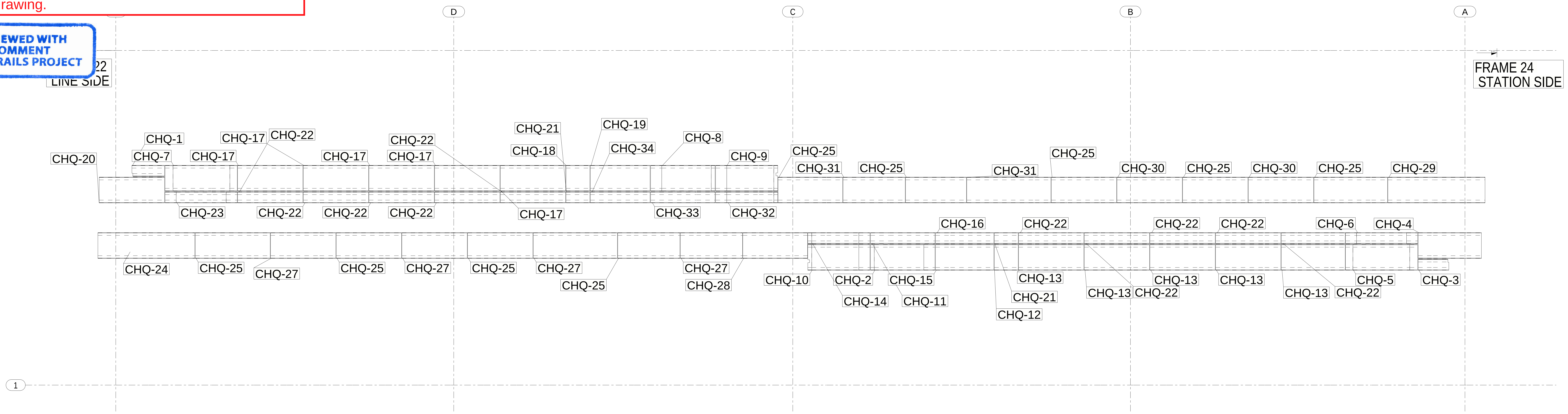
LINE SEGMENT (L00) Switch Deck

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
9 3 M	0 4 7 3	A C C	6 0 L 0 0	D W G	5 0 0 0 3	C

Tekla Structures

Drawing shall be updated accordingto the comments on the GA drawing.

REVIEWED WITH COMMENT MONORAILS PROJECT


D
C
B
A
1
22
LINE SIDE
FRAME 24
STATION SIDE
CHQ-1
CHQ-17
CHQ-22
CHQ-22
CHQ-21
CHQ-19
CHQ-8
CHQ-20
CHQ-7
CHQ-17
CHQ-17
CHQ-17
CHQ-18
CHQ-34
CHQ-9
CHQ-25
CHQ-31
CHQ-25
CHQ-31
CHQ-25
CHQ-30
CHQ-25
CHQ-30
CHQ-25
CHQ-29
CHQ-23
CHQ-22
CHQ-22
CHQ-22
CHQ-17
CHQ-33
CHQ-32
CHQ-16
CHQ-22
CHQ-22
CHQ-22
CHQ-6
CHQ-4
CHQ-24
CHQ-25
CHQ-27
CHQ-25
CHQ-27
CHQ-25
CHQ-27
CHQ-25
CHQ-27
CHQ-28
CHQ-10
CHQ-2
CHQ-15
CHQ-14
CHQ-11
CHQ-13
CHQ-21
CHQ-12
CHQ-13
CHQ-22
CHQ-13
CHQ-13
CHQ-13
CHQ-5
CHQ-22
CHQ-3

PLAN OF CHQ. PLATE OF CROSSOVER SWITCH DECK

6 October Monorail
Engineering Unit
Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority

Hill International

Consultant

Main Contractor

Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS
C	07.05.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
B	22.04.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
A	22.02.2023	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI

DRAWING TITLE

6TH OF OCTOBER MONORAIL

GA0303

LINE SEGMENT (L00) Switch Deck

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
9 3 M	0 4 7 3	A C C	6 0 L 0 0	D W G	5 0 0 0 4	C

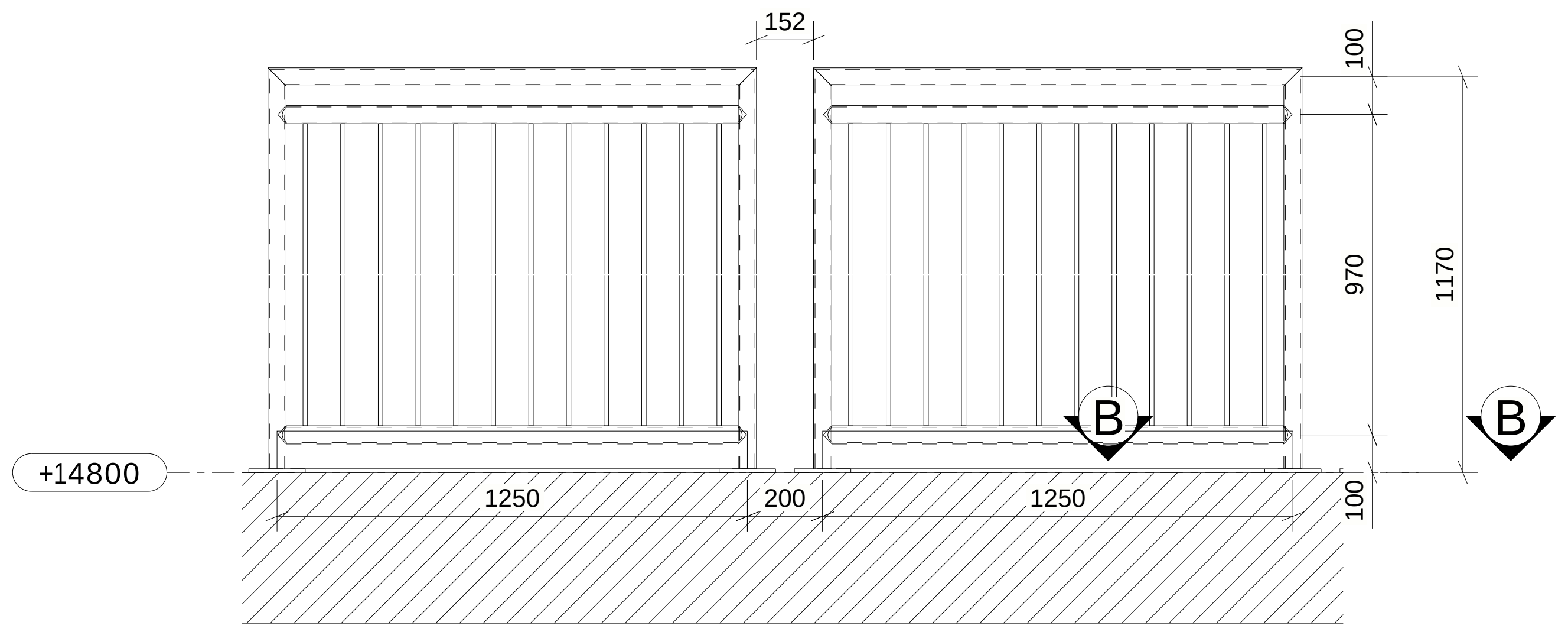
Tekla Structures

Drawing shall be updated accordingto the comments on the GA drawing.

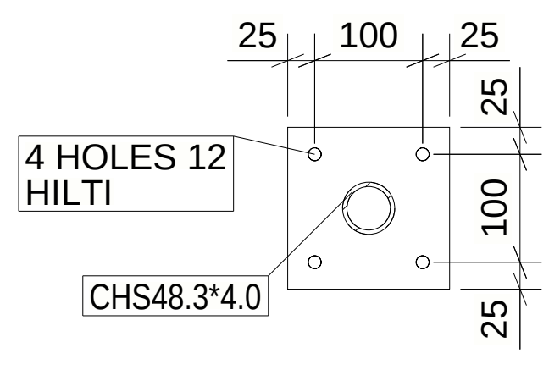
REVIEWED WITH COMMENT MONORAILS PROJECT

A
D
C
B
FRAME 24 STATION SIDE
FRAME 22 LINE SIDE
HR-1
HR-2
HR-4
HR-5
HR-6
HR-7
HR-8
HR-9
HR-10
HR-11
HR-12
HR-13
HR-14
HR-15
HR-16
HR-17
HR-18
2150
430
75
100
25
1
A

PLAN OF PERIMETER RAILING


152
100
970
1170
100
+14800
1250
200
1250
B
B

SECTION : A - A
SCALE 1:20


25
100
25
4 HOLES 12 HILTI
25
100
25
CHS48.3*4.0

SECTION : B - B
SCALE 1:10

6 October Monorail Engineering Unit Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
3	
4	
5	
6	
7	
8	
9	

6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority
Consultant
Main Contractor
Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS
C	07.05.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
B	22.04.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
A	22.02.2023	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI

DRAWING TITLE
6TH OF OCTOBER MONORAIL
GA0202
LINE SEGMENT (L00) Switch Deck

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
9 3 M	0 4 7 3	A C C	6 0 L 0 0	D W G	5 0 0 0 5	C

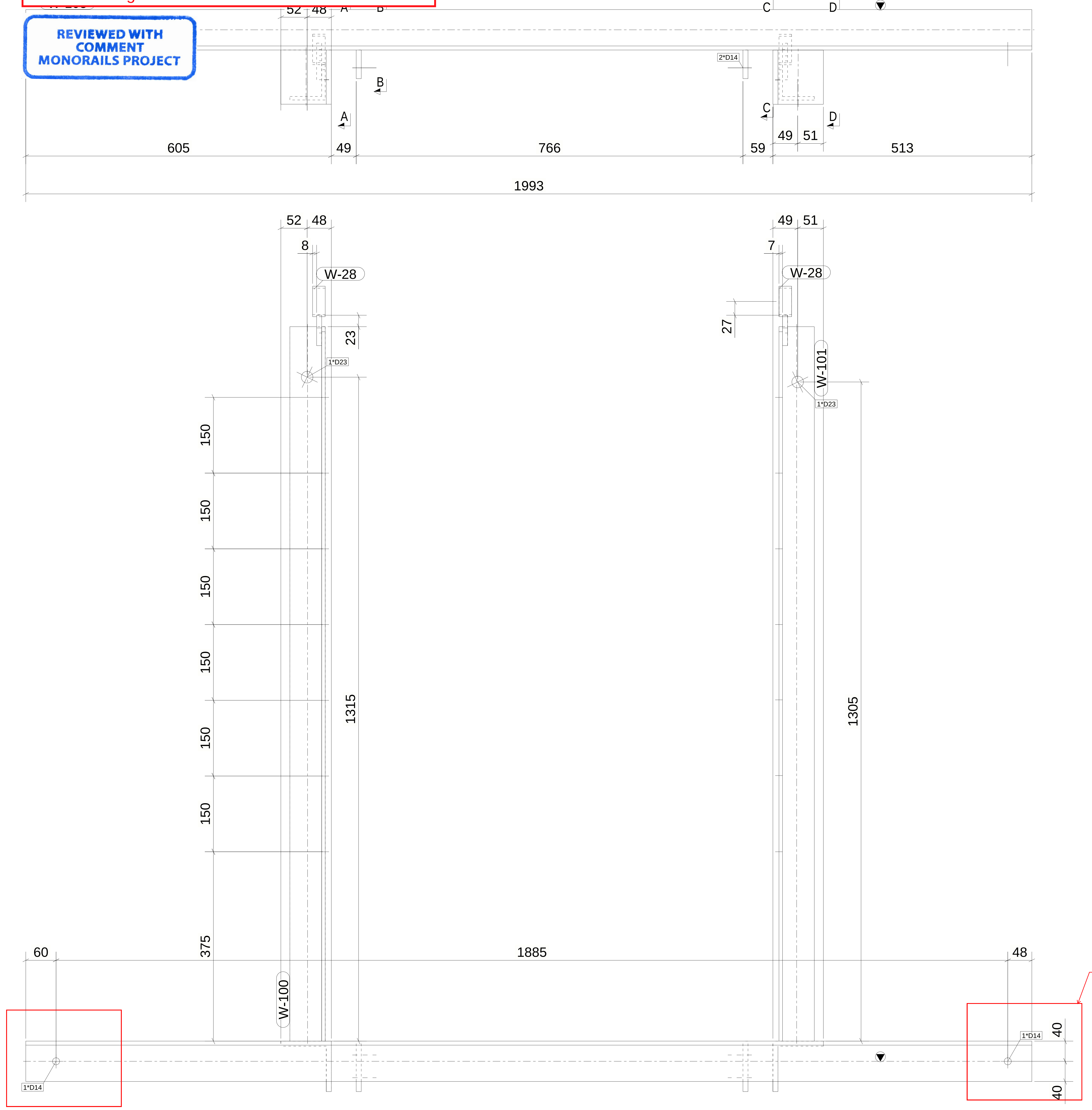
Tekla Structures

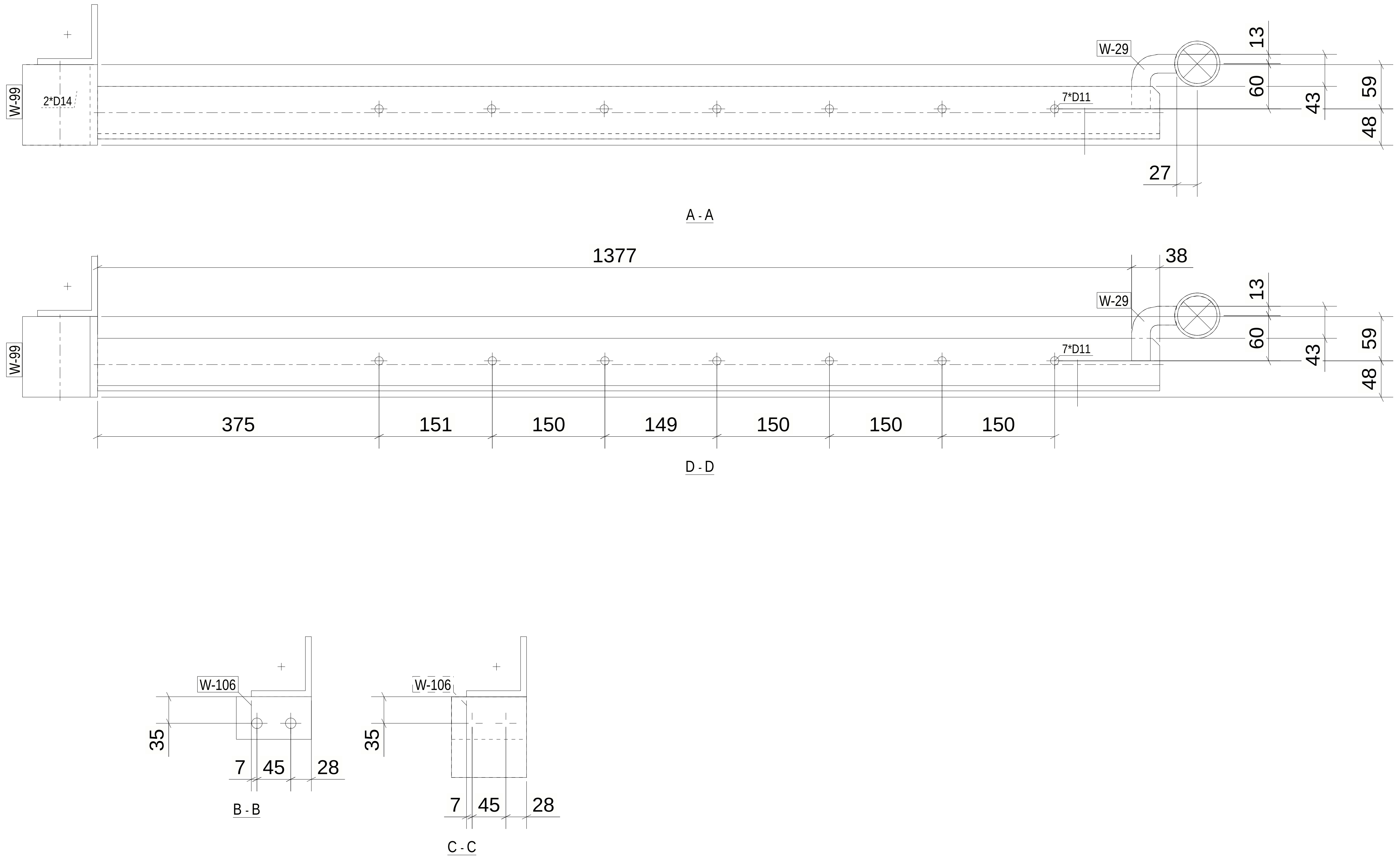
Drawing shall be updated accordingto the comments on the GA drawing.

REVIEWED WITH COMMENT
MONORAILS PROJECT

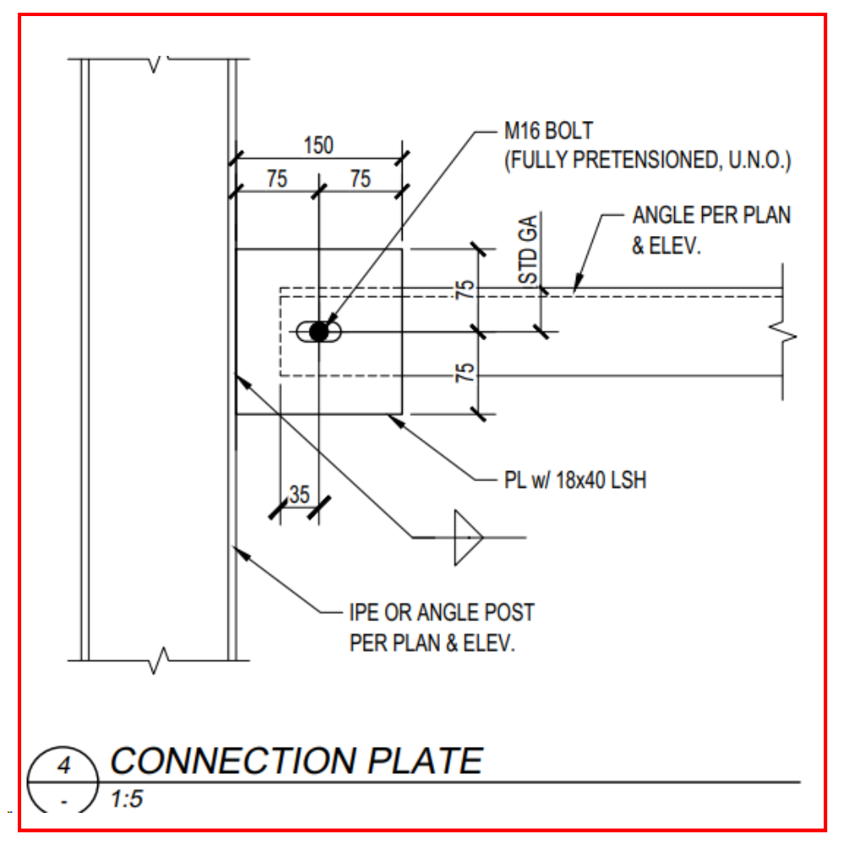
MATERIAL LIST FOR ASSEMBLY MK'DB-1

Mark	Profile	GRADE	No.	Length	Area	Weight
W-105	L80*8	S235JR	1	1993	0.62	19.24
W-28	PIPE2SCH40	S355JR	2	25	0.01	0.13
W-29	PL25*10	S355JR	2	98	0.01	0.19
W-99	L100*10	S235JR	2	107	0.04	1.62
W-100	L70*7	S235JR	1	1415	0.38	10.44
W-101	L70*7	S235JR	1	1415	0.38	10.44
W-106	PL10*100	S355JR	2	57	0.01	0.45
				Total	1.53	44.88


52
48
A
B
C
D
2*D14
605
49
766
59
49
51
513
1993
8
7
W-28
27
23
1*D23
W-101
150
150
150
150
150
150
375
1315
1305
60
1885
48
W-100
1*D14
40
40


W-99
2*D14
W-29
7*D11
13
60
43
59
48
27
A - A
1377
38
375
151
150
149
150
150
150
D - D
W-106
35
7
45
28
B - B
C - C

The connection is not matching with the design drawings as shown below.


150
75
75
M16 BOLT (FULLY PRETENSIONED, U.N.O.)
ANGLE PER PLAN & ELEV.
PL w/ 18x40 LSH
IPE OR ANGLE POST PER PLAN & ELEV.
4
1:5

CONNECTION PLATE

1 *REQUIRED AS DRAWN MARKED* B-1

6 October Monorail
Engineering Unit
Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
3	
4	
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority
Hill International
Consultant
Main Contractor
Structural Designer

KEY PLAN:

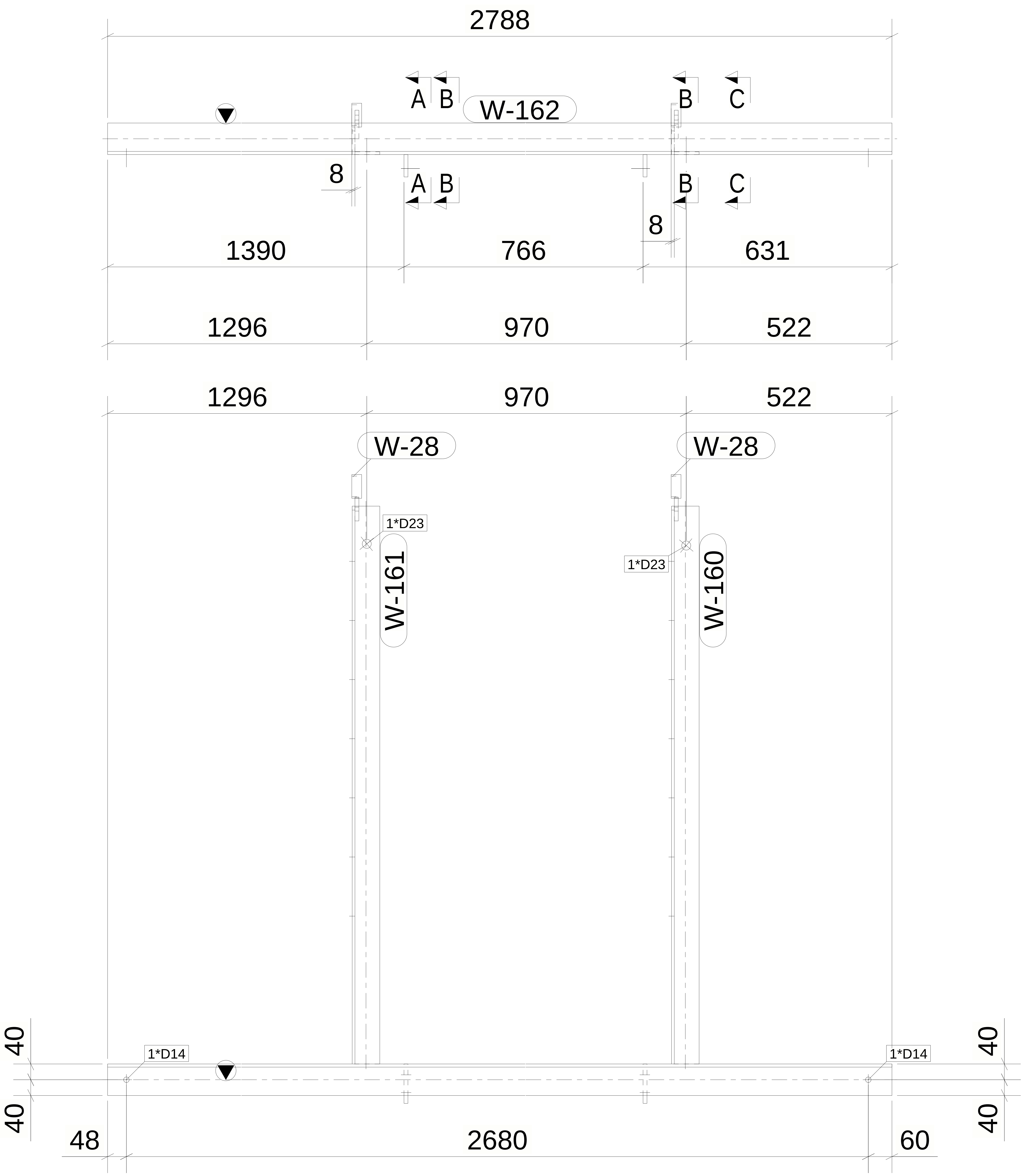
SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

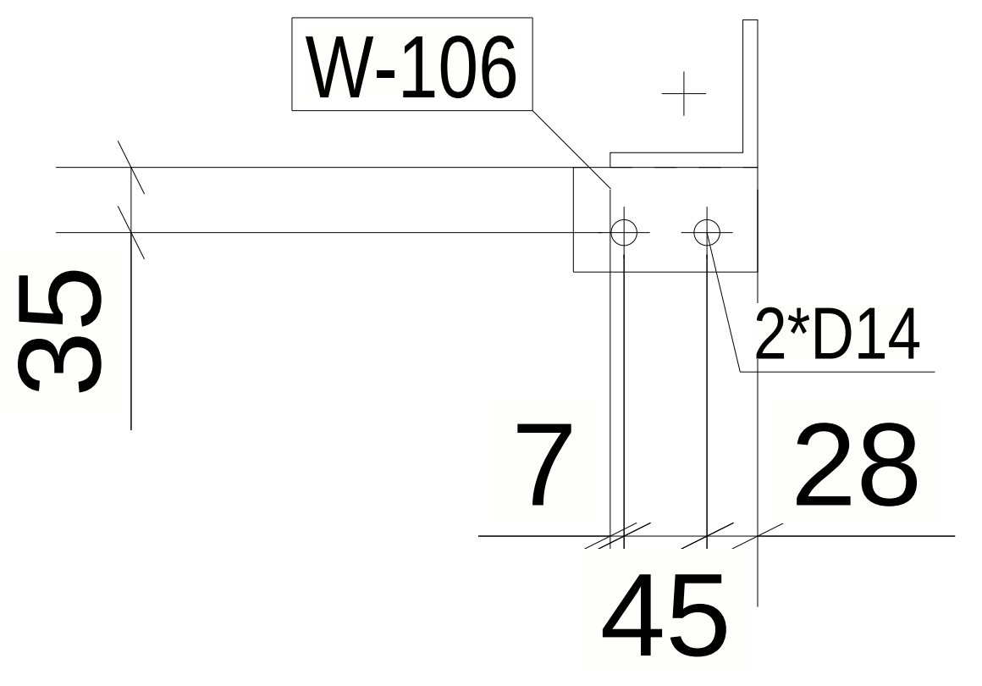
REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS
C	07.05.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
B	22.04.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
A	22.02.2023	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI

DRAWING TITLE
6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
BEAM : B-1

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
93M	0473	ACC	60L00	DWG	50006	C

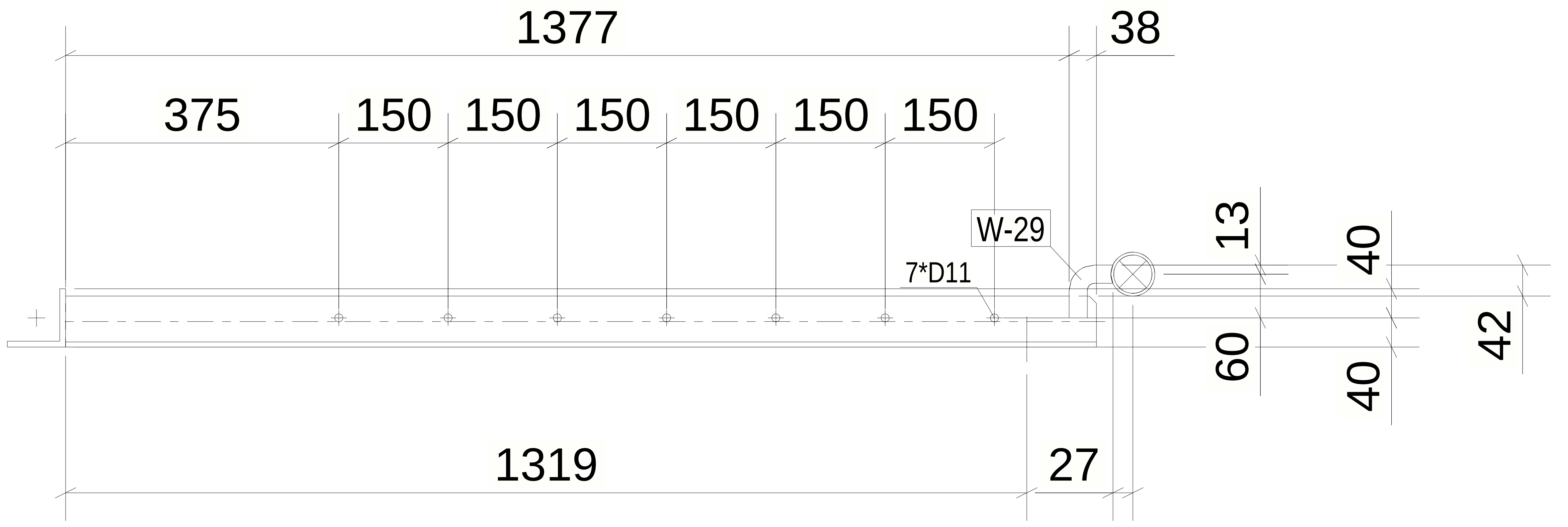
Tekla Structures


2788
A
B
W-162
B
C
8
A
B
B
C
8
1390
766
631
1296
970
522
1296
970
522
W-28
W-28
1*D23
W-161
1*D23
W-160
40
1*D14
1*D14
40
40
40
48
2680
60

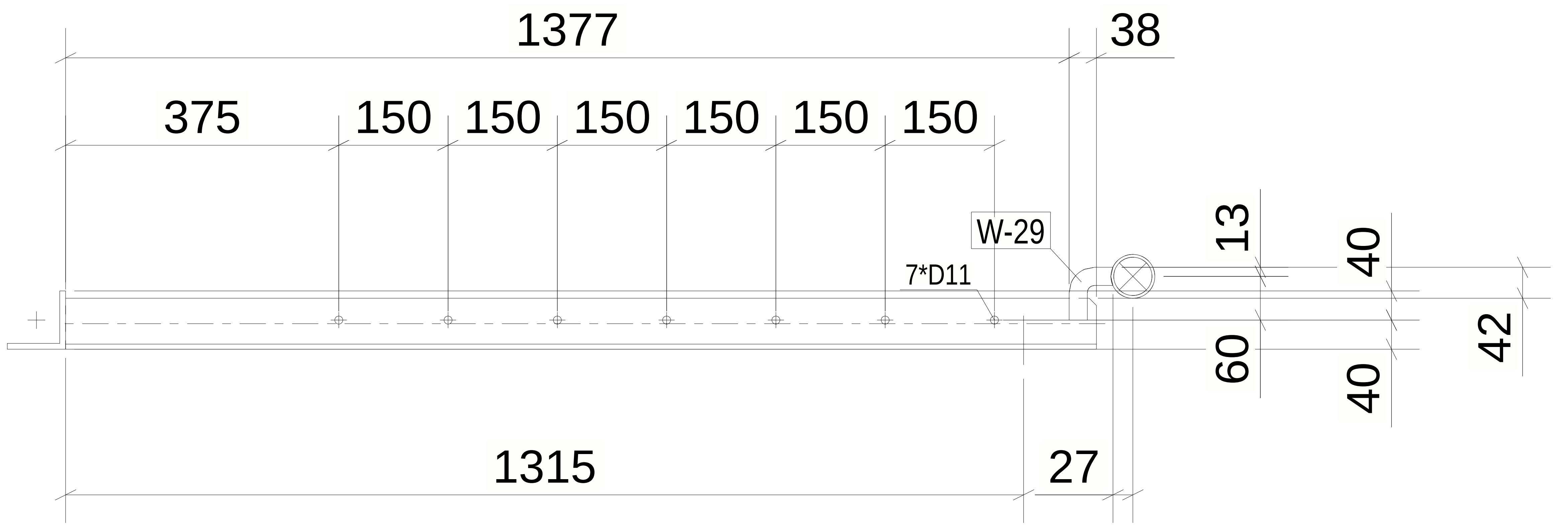

W-106
35
2*D14
7
28
45

B - B

MATERIAL LIST FOR ASSEMBLY MK'DB-2						
Mark	Profile	GRADE	No.	Length	Area	Weight
W-162	L80*8	S235JR	1	2788	0.87	26.92
W-28	PIPE2SCH40	S355JR	2	25	0.01	0.13
W-29	PL25*10	S355JR	2	98	0.01	0.19
W-106	PL10*100	S355JR	2	57	0.01	0.45
W-160	L70*7	S235JR	1	1415	0.38	10.44
W-161	L70*7	S235JR	1	1415	0.38	10.44
				Total	1.69	49.32


1377
38
375
150
150
150
150
150
150
W-29
7*D11
13
40
42
60
40
1319
27

A - A


1377
38
375
150
150
150
150
150
150
W-29
7*D11
13
40
42
60
40
1315
27

C - C

Same comments as
93M-0473-ACC-6OL00-DWG-50006-C.

REVIEWED WITH
COMMENT
MONORAILS PROJECT

6 October Monorail
Engineering Unit
Valid For Construction

1 *REQUIRED AS DRAWN MARKED* B-2

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2.WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3.ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
3	
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority

Hill International
Consultant

Main Contractor

Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS

DRAWING TITLE

6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
BEAM : B-2

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
93M	0473	ACC	60L00	DWG	50007	C

Tekla Structures

MATERIAL LIST FOR ASSEMBLY MK'DB-3

Mark	Profile	GRADE	No.	Length	Area	Weight
W-150	HEA360	S355JR	1	11649	21.32	1307.71
W-28	PIPE2SCH40	S355JR	1	25	0.01	0.13
W-29	PL25*10	S355JR	1	98	0.01	0.19
W-37	PL8*195	S355JR	1	315	0.13	3.72
W-38	PL8*140	S355JR	1	315	0.09	2.71
W-147	L70*7	S235JR	1	1275	0.35	9.41
W-208	PL25*300	S355JR	1	350	0.24	20.61
W-210	PL8*140	S355JR	2	315	0.09	2.71
				Total	22.33	1349.90

W-28
B
W-147
70
210
70
W-208
8*D27
65
50
50
65
A - A
42
13
60
10
38
W-29
27
7*D11
150
150
150
150
150
150
1237
235
35
80
85
120
230
W-37
2*D23
11674
25
11649
11536
113
11394
255
A
W-150
A
B
W-210 BS
11350
250
50
11536
113
250
50
8
100
100
85
85
85
85
2*D14
2*D14
2*D14
2*D14
1790
48
2952
48
2952
48
2952
48
618
37
156
11404
245
M20 Gr. 8.8 BOLTS
HEA PER PLAN
150
26x300x360 w/ (4)
mm GR 8.8 BOLTS w/
HORT SLOTS
PARALLEL TO BEAM
HS 140X140X8, TYP
125
125
CL POST
A
50
150
300
50
55
180
360
55
A SECTION
8 CONNECTION COLUMN TO HEA
1:5
4*D27
B - B

Show the bolts in this section and follow the design reference as shown below for the slot sizes.

1 *REQUIRED AS DRAWN MARKED* B-3

6 October Monorail
Engineering Unit
Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
3	
4	
5	
6	
7	
8	
9	

6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority

Hill International

Consultant

Main Contractor

Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS
C	07.05.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
B	22.04.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
A	22.02.2023	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI

DRAWING TITLE

6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
BEAM : B-3

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
93M	0473	ACC	60L00	DWG	50008	C

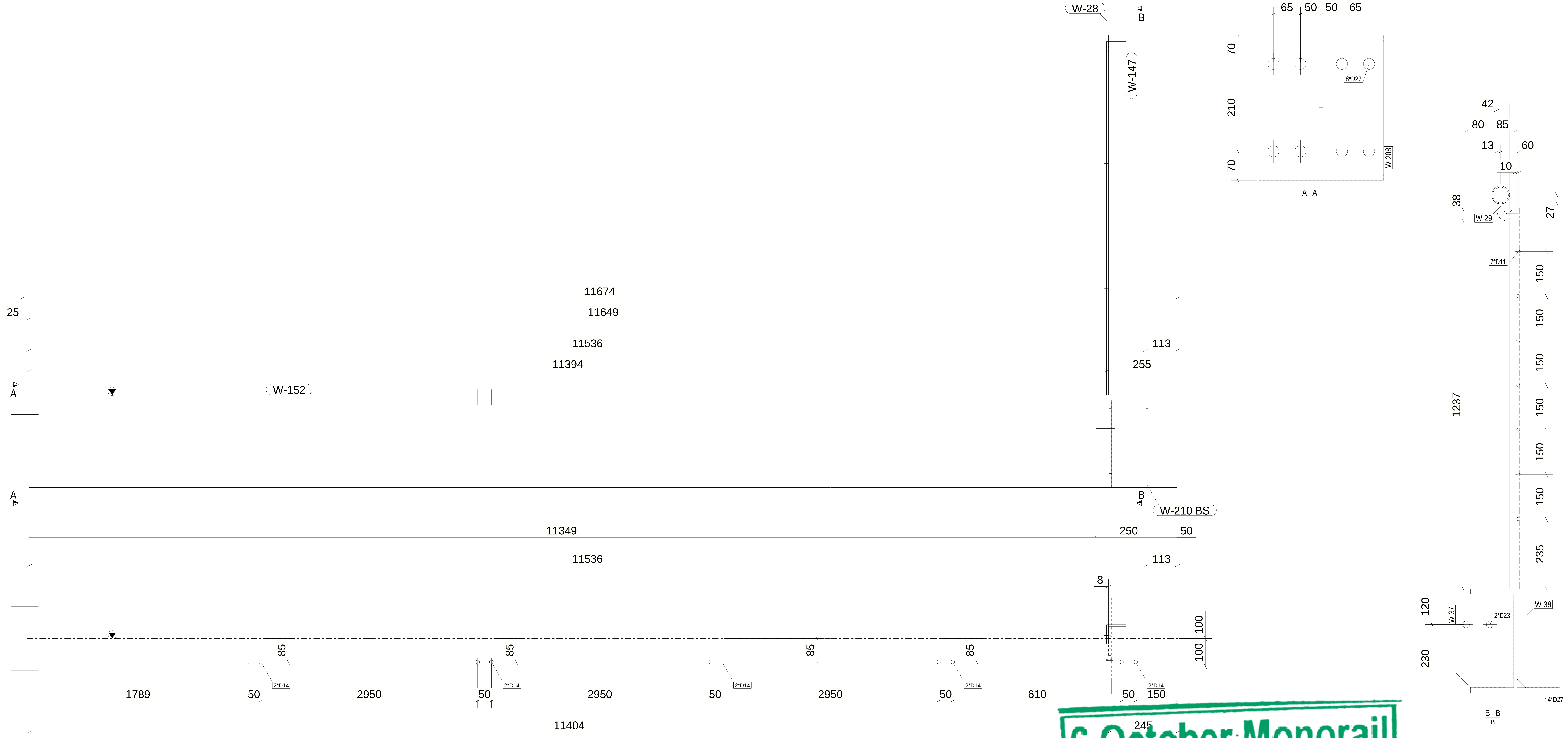
Tekla Structures

Same comments as
93M-0473-ACC-6OL00-DWG-50008-C.

REVIEWED WITH
COMMENT
MONORAILS PROJECT

MATERIAL LIST FOR ASSEMBLY MK'DB-4

Mark	Profile	GRADE	No.	Length	Area	Weight
W-152	HEA360	S355JR	1	11649	21.32	1307.71
W-28	PIPE2SCH40	S355JR	1	25	0.01	0.13
W-29	PL25*10	S355JR	1	98	0.01	0.19
W-37	PL8*195	S355JR	1	315	0.13	3.72
W-38	PL8*140	S355JR	1	315	0.09	2.71
W-147	L70*7	S235JR	1	1275	0.35	9.41
W-208	PL25*300	S355JR	1	350	0.24	20.61
W-210	PL8*140	S355JR	2	315	0.09	2.71
				Total	22.33	1349.90


W-28
B
W-147
65
50
50
65
70
210
70
8*D27
W-208
A - A
42
80
85
13
60
10
38
W-29
27
7*D11
150
150
150
150
150
150
1237
235
11674
25
11649
11536
113
11394
255
A
W-152
A
B
W-210 BS
11349
250
50
11536
113
8
100
100
85
85
85
85
2*D14
2*D14
2*D14
2*D14
2*D14
1789
50
2950
50
2950
50
2950
50
610
50
150
11404
245
120
230
W-37
2*D23
W-38
4*D27
B - B
B

1 *REQUIRED AS DRAWN MARKED* B-4

6 October Monorail
Engineering Unit
Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
3	
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8	
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority
Hill International
Consultant
Main Contractor
Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS
C	07.05.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
B	22.04.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
A	22.02.2023	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI

DRAWING TITLE

6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
BEAM : B-4

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
93M	0473	ACC	60L00	DWG	50009	C

Tekla Structures

Same comments as
93M-0473-ACC-6OL00-DWG-50008-C.

REVIEWED WITH
COMMENT
MONORAILS PROJECT

MATERIAL LIST FOR ASSEMBLY MK'DB-5

Mark	Profile	GRADE	No.	Length	Area	Weight
W-35	HEA360	S355JR	1	4340	7.94	487.13
W-28	PIPE2SCH40	S355JR	1	25	0.01	0.13
W-29	PL25*10	S355JR	1	98	0.01	0.19
W-37	PL8*195	S355JR	1	315	0.13	3.72
W-38	PL8*140	S355JR	1	315	0.09	2.71
W-147	L70*7	S235JR	1	1275	0.35	9.41
W-208	PL25*300	S355JR	1	350	0.24	20.61
W-210	PL8*140	S355JR	2	315	0.09	2.71
				Total	8.95	529.32

W-28
A
W-147
4365
4340
25
135
4205
59
4281
125
4215
C
W-35
D
134
75
141
2*D23
A
C
D
80
250
4010
135
4205
8
85
2*D14
2*D14
180
50
2950
50
1110
267
4073
80
85
120
230
W-37
2*D23
W-38
C - C
70
210
70
W-208
8*D27
65
50
50
65
D - D
W-29
7*D11
W-210
W-210
4*D27
100
100
A - A
42
60
13
38
27
11
150
150
150
150
150
150
1237
235
B - B

1 *REQUIRED AS DRAWN MARKED* B-5

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
3	
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7	
8	
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority

Consultant

Main Contractor

Structural Designer

KEY PLAN:

6 October Monorail
Engineering Unit
Valid For Construction

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS
C	07.05.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
B	22.04.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
A	22.02.2023	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI

DRAWING TITLE

6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
BEAM : B-5

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
93	M0473	ACC	60L00	DWG	50010	C

Tekla Structures

Same comments as
93M-0473-ACC-6OL00-DWG-50008-C.

REVIEWED WITH
COMMENT
MONORAILS PROJECT

MATERIAL LIST FOR ASSEMBLY MK'DB-6

Mark	Profile	GRADE	No.	Length	Area	Weight
W-61	HEA360	S355JR	1	4340	7.94	487.13
W-28	PIPE2SCH40	S355JR	1	25	0.01	0.13
W-29	PL25*10	S355JR	1	98	0.01	0.19
W-37	PL8*195	S355JR	1	315	0.13	3.72
W-38	PL8*140	S355JR	1	315	0.09	2.71
W-147	L70*7	S235JR	1	1275	0.35	9.41
W-208	PL25*300	S355JR	1	350	0.24	20.61
W-210	PL8*140	S355JR	2	315	0.09	2.71
				Total	8.95	529.32

W-28
A
W-147
4365
4340
25
135
4205
59
4280
125
4215
C
W-61
D
134
75
141
2*D23
80
250
4010
8
85
2*D14
181
48
2952
1111
267
4073
80
85
120
230
W-37
2*D23
W-38
C - C
65
50
65
70
210
8*D27
W-208
D - D
W-29
7*D11
W-210
4*D27
100
A - A
42
60
13
38
27
10
150
1237
235
B - B

1 *REQUIRED AS DRAWN MARKED* B-6

6 October Monorail
Engineering Unit
Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
3	
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8	
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority

Hill International

Consultant

Main Contractor

Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS
C	07.05.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
B	22.04.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
A	22.02.2023	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI

DRAWING TITLE

6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
BEAM : B-6

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
93M	0473	ACC	60L00	DWG	50011	C

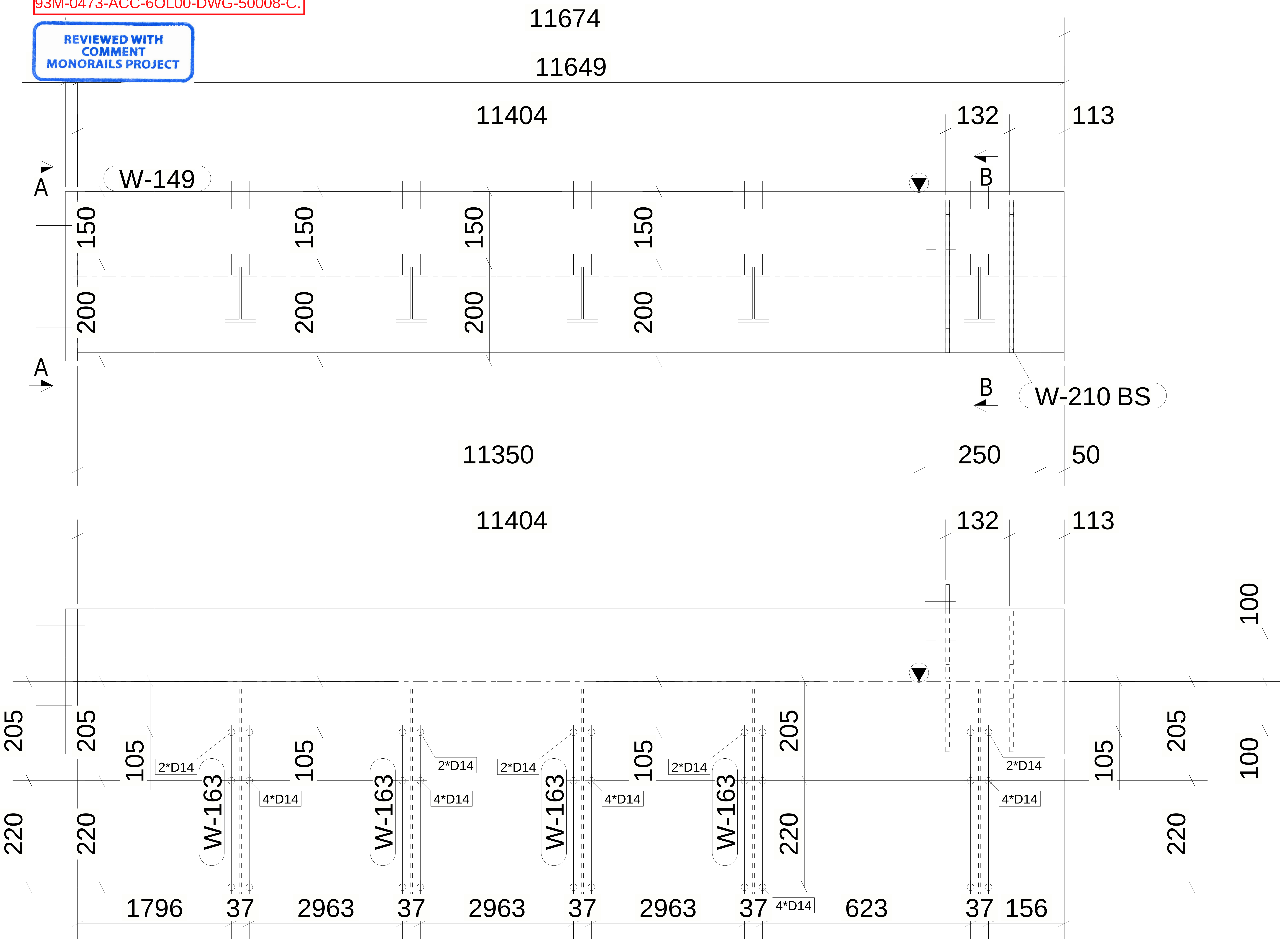
Tekla Structures

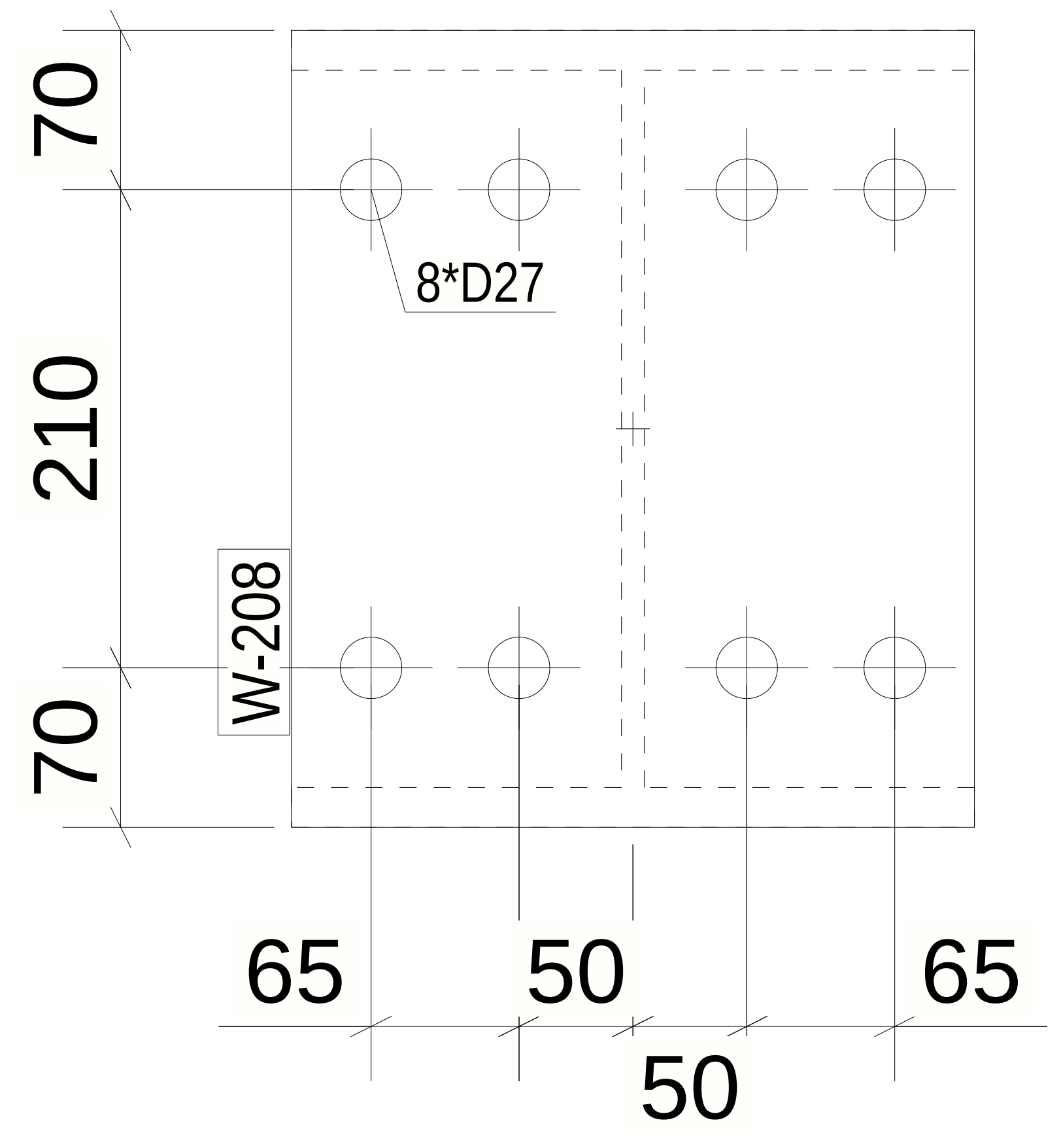
Same comments as
93M-0473-ACC-6OL00-DWG-50008-C.

REVIEWED WITH
COMMENT
MONORAILS PROJECT

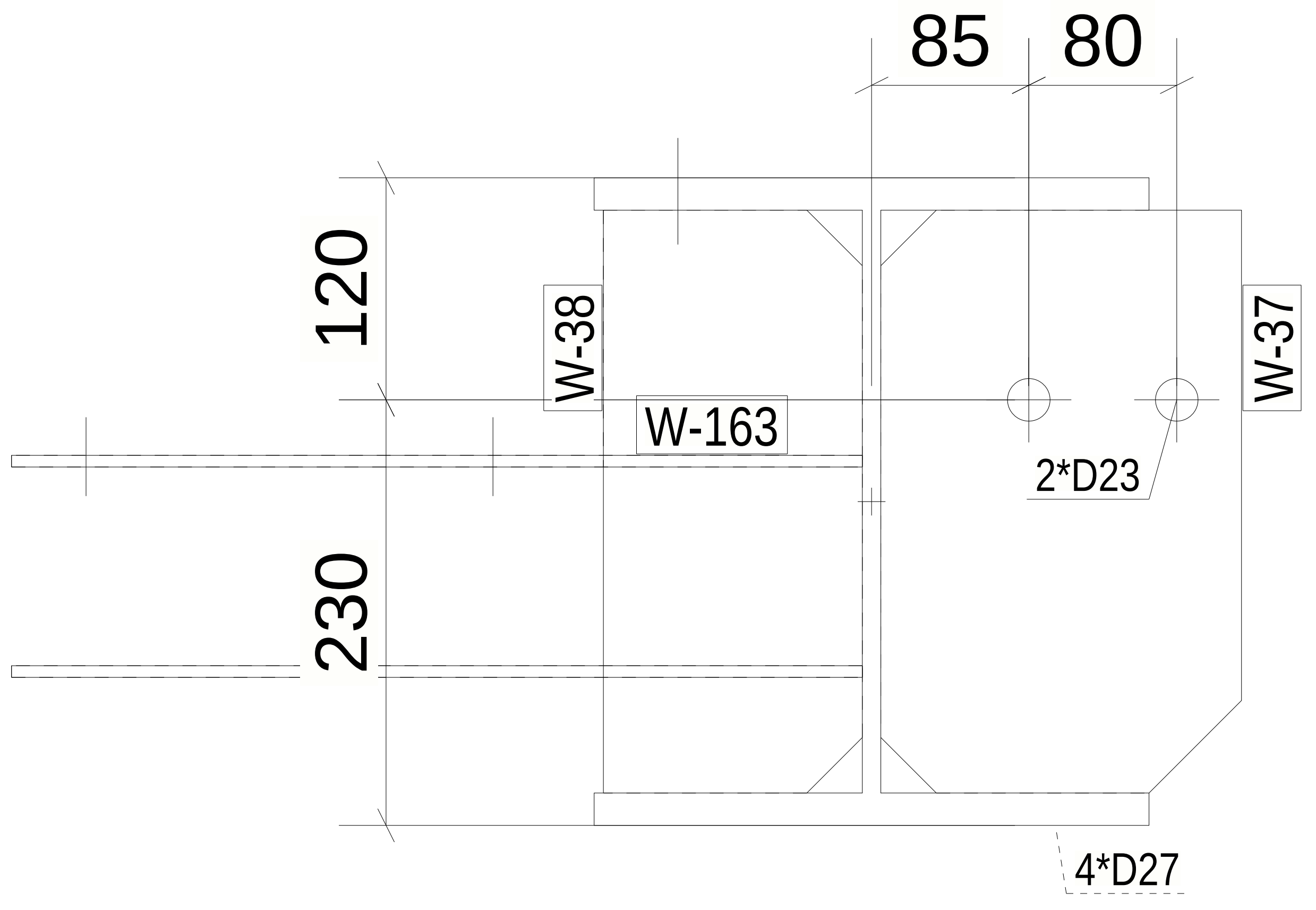
MATERIAL LIST FOR ASSEMBLY MK'DB-7

Mark	Profile	GRADE	No.	Length	Area	Weight
W-149	HEA360	S355JR	1	11649	21.32	1307.71
W-37	PL8*195	S355JR	1	315	0.13	3.72
W-38	PL8*140	S355JR	1	315	0.09	2.71
W-163	IPE120	S355JR	5	460	0.22	4.77
W-208	PL25*300	S355JR	1	350	0.24	20.61
W-210	PL8*140	S355JR	2	315	0.09	2.71
				Total	23.06	1364.01


11674
11649
11404
132
113
W-149
A
A
B
B
150
200
W-210 BS
11350
250
50
100
205
220
105
2*D14
4*D14
W-163
1796
37
2963
623
156


70
210
70
8*D27
W-208
65
50
65
50

A - A


85
80
120
230
W-38
W-163
W-37
2*D23
4*D27

B - B

1 *REQUIRED AS DRAWN MARKED* B-7

6 October Monorail
Engineering Unit
Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
3	
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5	
6	
7	
8	
9	

6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority
Hill International
Consultant
Main Contractor
Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS

DRAWING TITLE

6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
BEAM : B-7

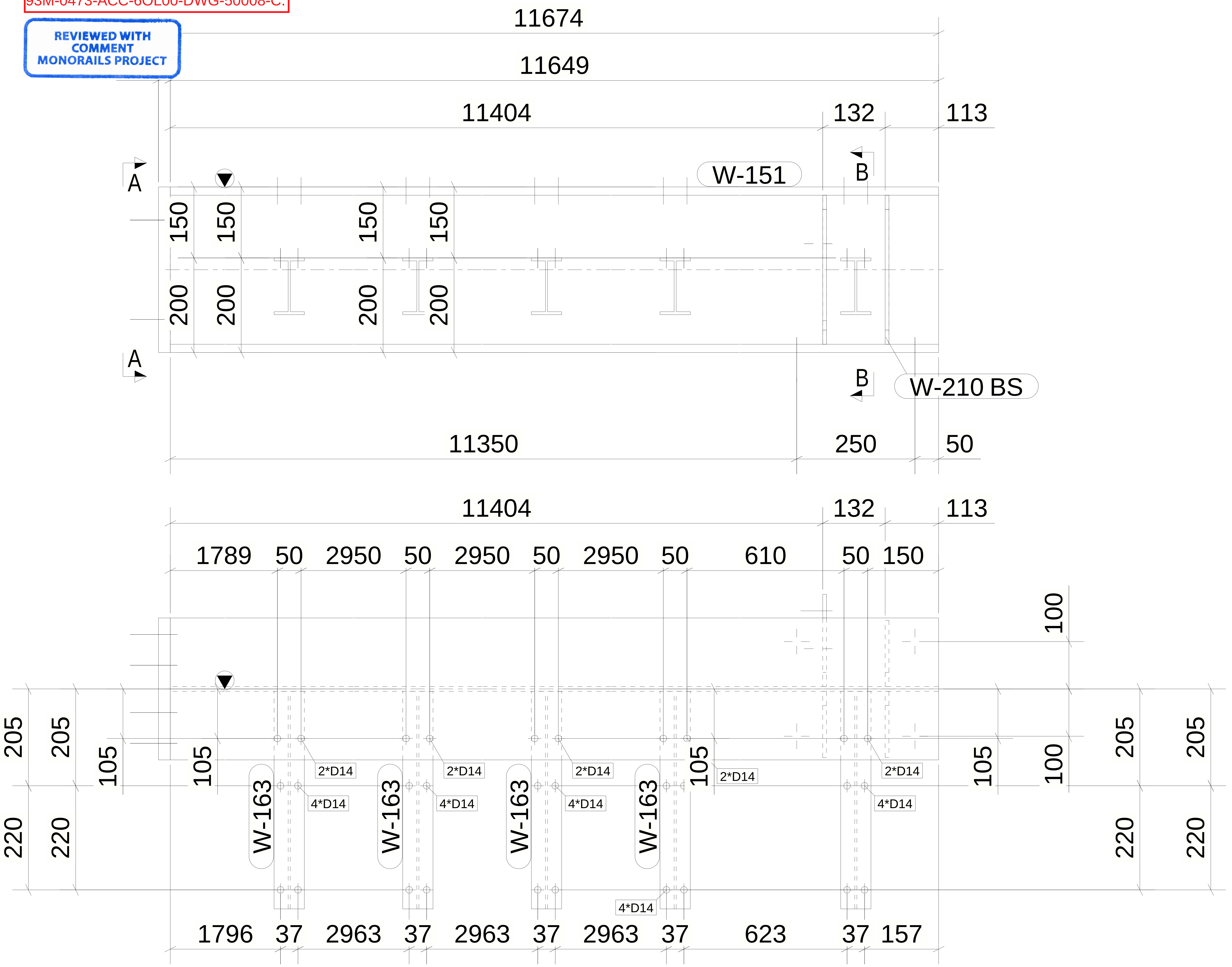
Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
93M	0473	ACC	60L00	DWG	50012	C

Tekla Structures

Same comments as
93M-0473-ACC-6OL00-DWG-50008-C.

**REVIEWED WITH
COMMENT
MONORAILS PROJECT**

MATERIAL LIST FOR ASSEMBLY MK'DB-8						
Mark	Profile	GRADE	No.	Length	Area	Weight
W-151	HEA360	S355JR	1	11649	21.32	1307.71
W-37	PL8*195	S355JR	1	315	0.13	3.72
W-38	PL8*140	S355JR	1	315	0.09	2.71
W-163	IPE120	S355JR	5	460	0.22	4.77
W-208	PL25*300	S355JR	1	350	0.24	20.61
W-210	PL8*140	S355JR	2	315	0.09	2.71
				Total	23.06	1364.01


11674
11649
11404
132
113
W-151
A
A
B
B
W-210 BS
150
150
150
150
200
200
200
200
11350
250
50
11404
132
113
1789
50
2950
50
2950
50
2950
50
610
50
150
100
205
205
105
105
W-163
W-163
W-163
W-163
2*D14
2*D14
2*D14
2*D14
2*D14
4*D14
4*D14
4*D14
4*D14
4*D14
105
105
100
205
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220
220
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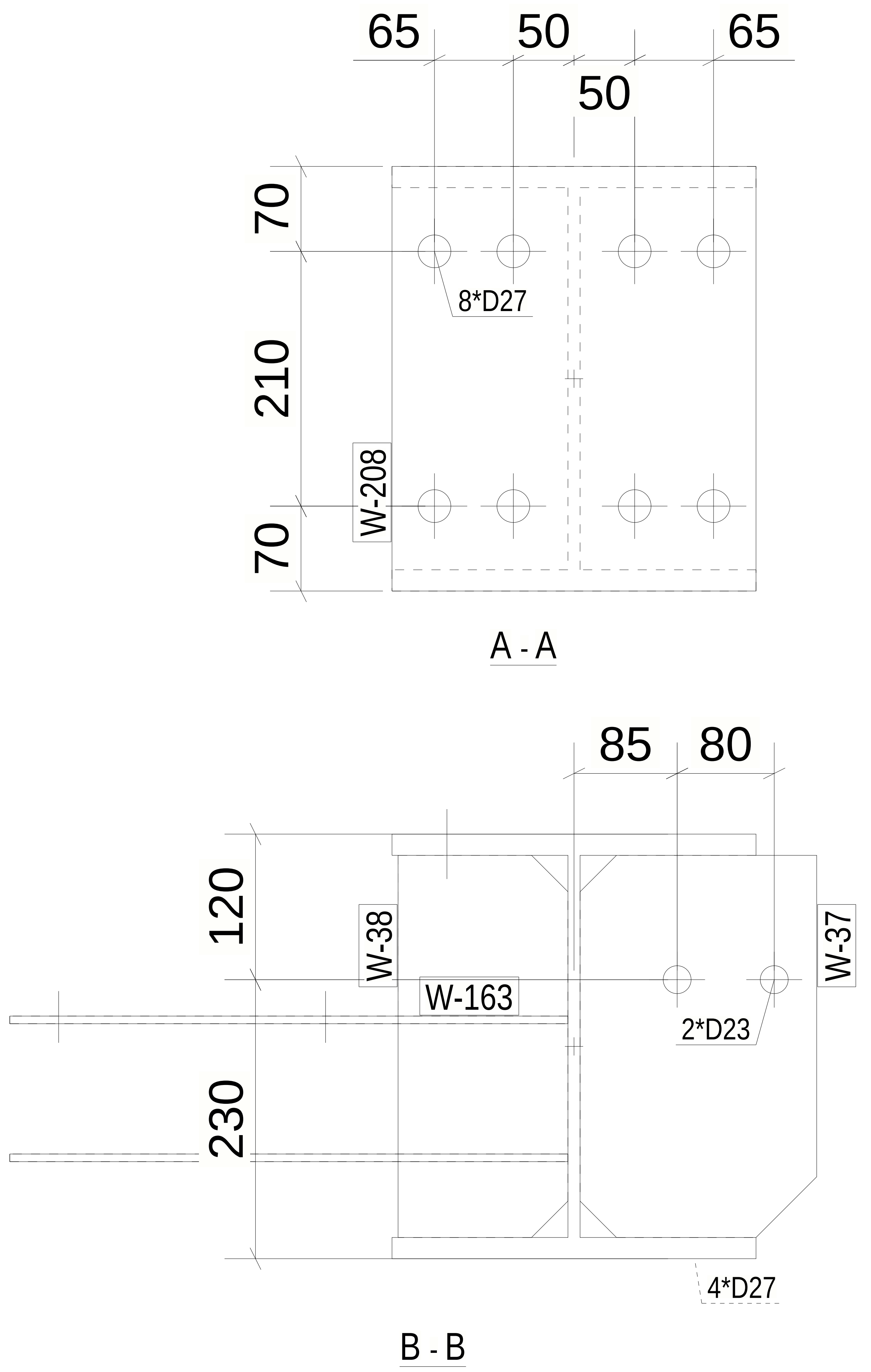
220
1796
37
2963
37
2963
37
2963
37
623
37
157


65
50
65
50
70
210
70
8*D27
W-208
A - A
85
80
120
230
W-38
W-163
2*D23
W-37
4*D27
B - B

1 *REQUIRED AS DRAWN MARKED* B-8

6 October Monorail
Engineering Unit
Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2.WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3.ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
3	
4	
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6	
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8	
9	

6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority

Hill International
Consultant

Main Contractor

Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS

DRAWING TITLE

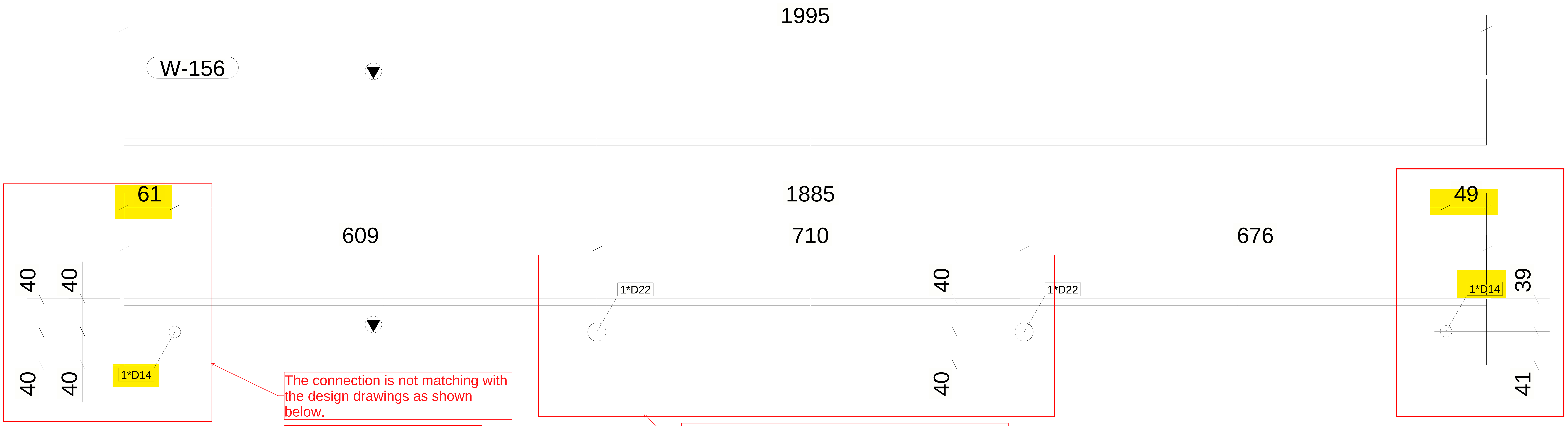
6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
BEAM : B-8

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
93M	0473	ACC	6OL00	DWG	50013	C

Tekla Structures

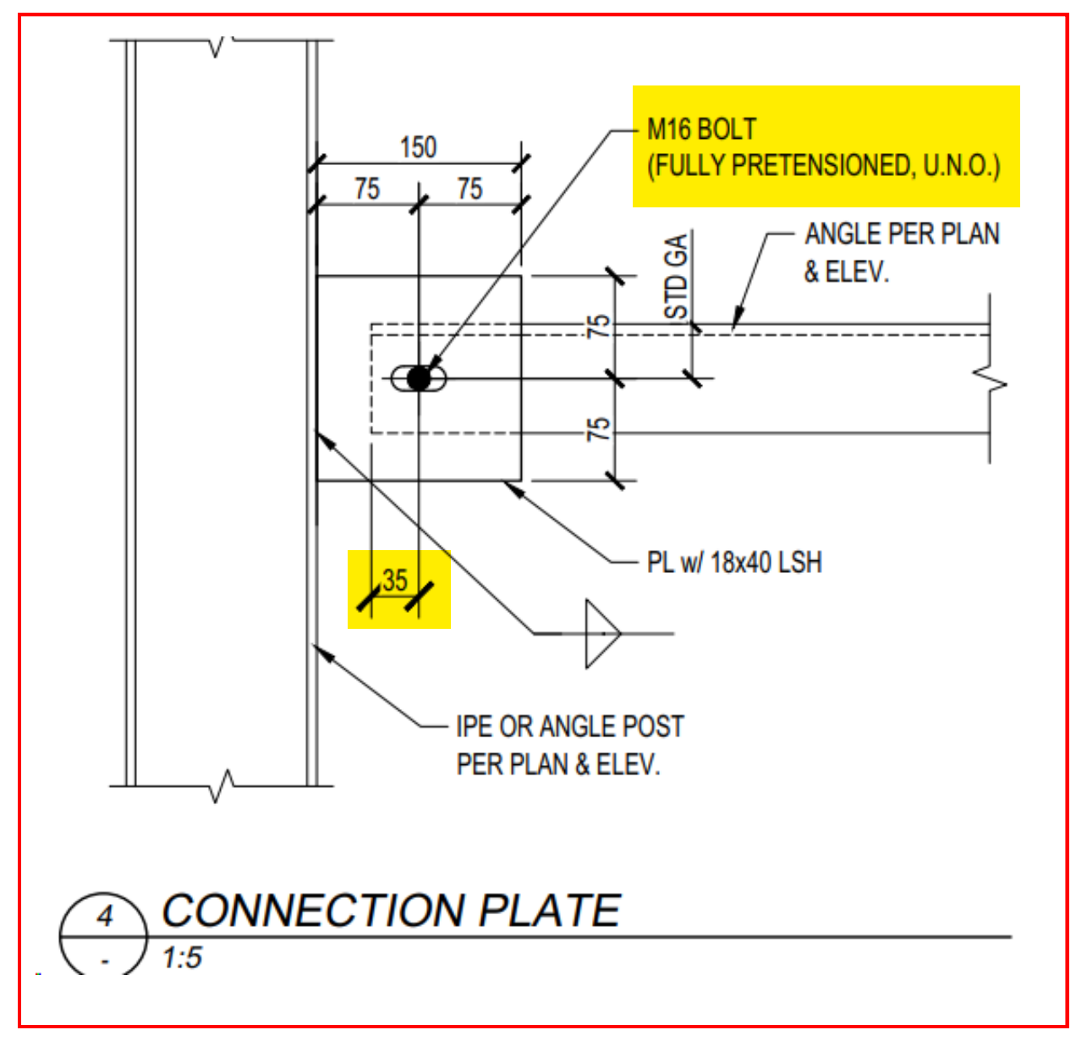
MATERIAL LIST FOR ASSEMBLY MK'DB-9

Mark	Profile	GRADE	No.	Length	Area	Weight
W-156	L80*8	S235JR	1	1995	0.62	19.26
				Total	0.62	19.26

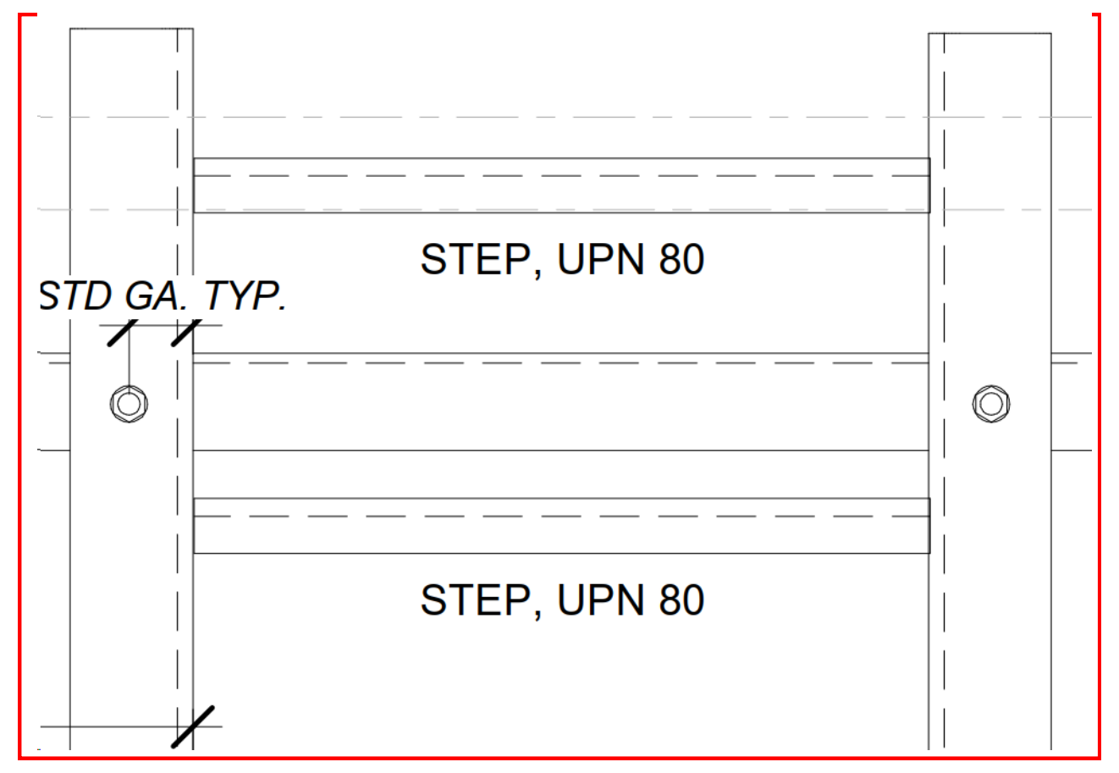

1995
W-156
1885
61
49
609
710
676
40
40
40
40
1*D22
40
40
1*D22
1*D14
39
41
1*D14

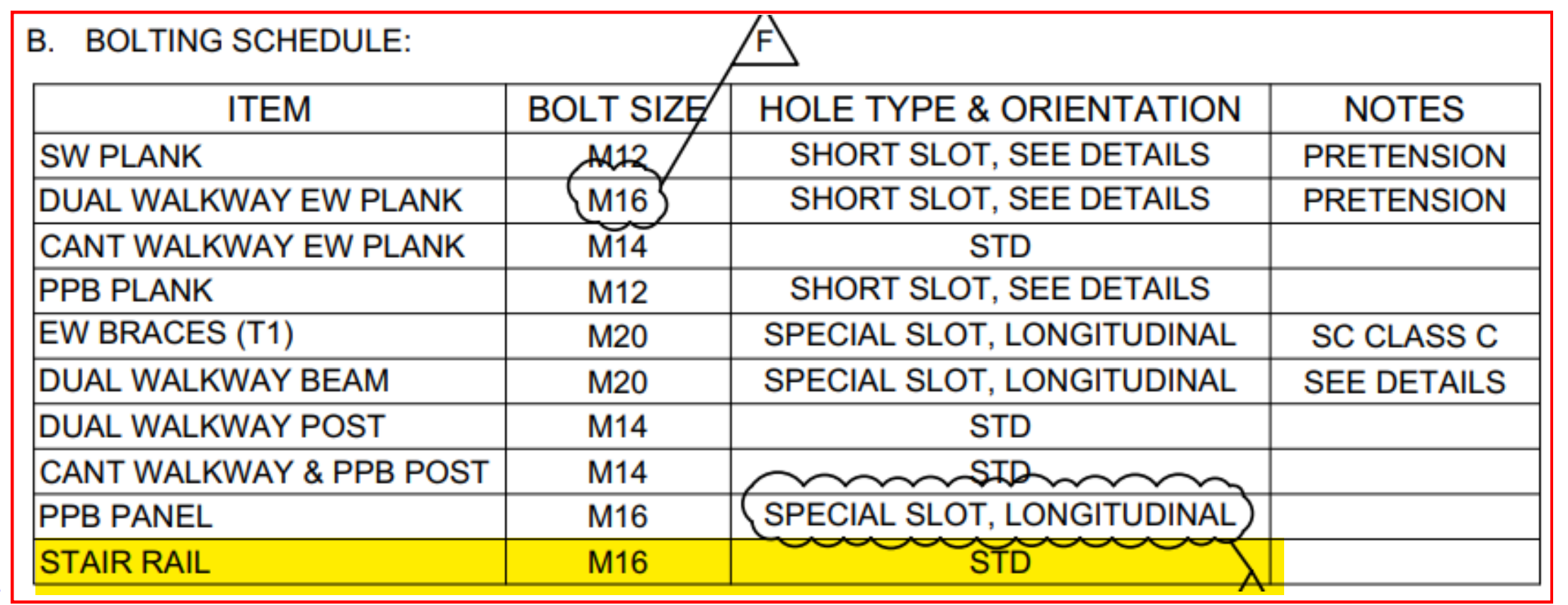
The connection is not matching with the design drawings as shown below.

Please add a reference for these bolts as it should be M16 as per design snaps shown below.


150
75
75
M16 BOLT
(FULLY PRETENSIONED, U.N.O.)
ANGLE PER PLAN
& ELEV.
STD GA
75
75
PL w/ 18x40 LSH
35
IPE OR ANGLE POST
PER PLAN & ELEV.
4
-

CONNECTION PLATE
1:5


STD GA. TYP.
STEP, UPN 80
STEP, UPN 80



B. BOLTING SCHEDULE:

ITEM	BOLT SIZE	HOLE TYPE & ORIENTATION	NOTES
SW PLANK	M12	SHORT SLOT, SEE DETAILS	PRETENSION
DUAL WALKWAY EW PLANK	M16	SHORT SLOT, SEE DETAILS	PRETENSION
CANT WALKWAY EW PLANK	M14	STD	
PPB PLANK	M12	SHORT SLOT, SEE DETAILS	
EW BRACES (T1)	M20	SPECIAL SLOT, LONGITUDINAL	SC CLASS C
DUAL WALKWAY BEAM	M20	SPECIAL SLOT, LONGITUDINAL	SEE DETAILS
DUAL WALKWAY POST	M14	STD	
CANT WALKWAY & PPB POST	M14	STD	
PPB PANEL	M16	SPECIAL SLOT, LONGITUDINAL	
STAIR RAIL	M16	STD	

F

1 *REQUIRED AS DRAWN MARKED* B-9

6 October Monorail
Engineering Unit
Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
3	
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority

Hill International
Consultant

ORASCOM BOMBARDIER
Main Contractor

INNOVA
Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS

DRAWING TITLE

6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
BEAM : B-9

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
9 3 M	0 4 7 3	A C C	6 0 L 0 0	D W G	5 0 0 1 4	C

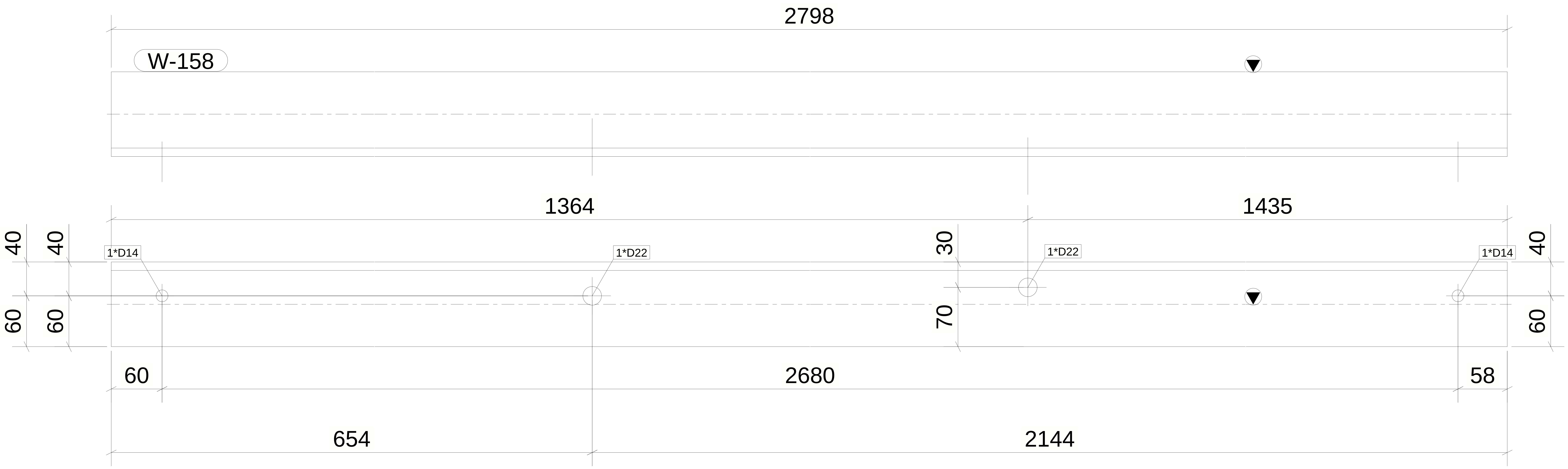
Tekla Structures

Same comments as
93M-0473-ACC-6OL00-DWG-50014-C

**REVIEWED WITH COMMENT
MONORAILS PROJECT**

MATERIAL LIST FOR ASSEMBLY MK'DB-10

Mark	Profile	GRADE	No.	Length	Area	Weight
W-158	L100*10	S235JR	1	2798	1.09	42.18
				Total	1.09	42.18



1 *REQUIRED AS DRAWN MARKED* B-10

6 October Monorail
Engineering Unit
Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority

Hill International
Consultant

Main Contractor

Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS

DRAWING TITLE

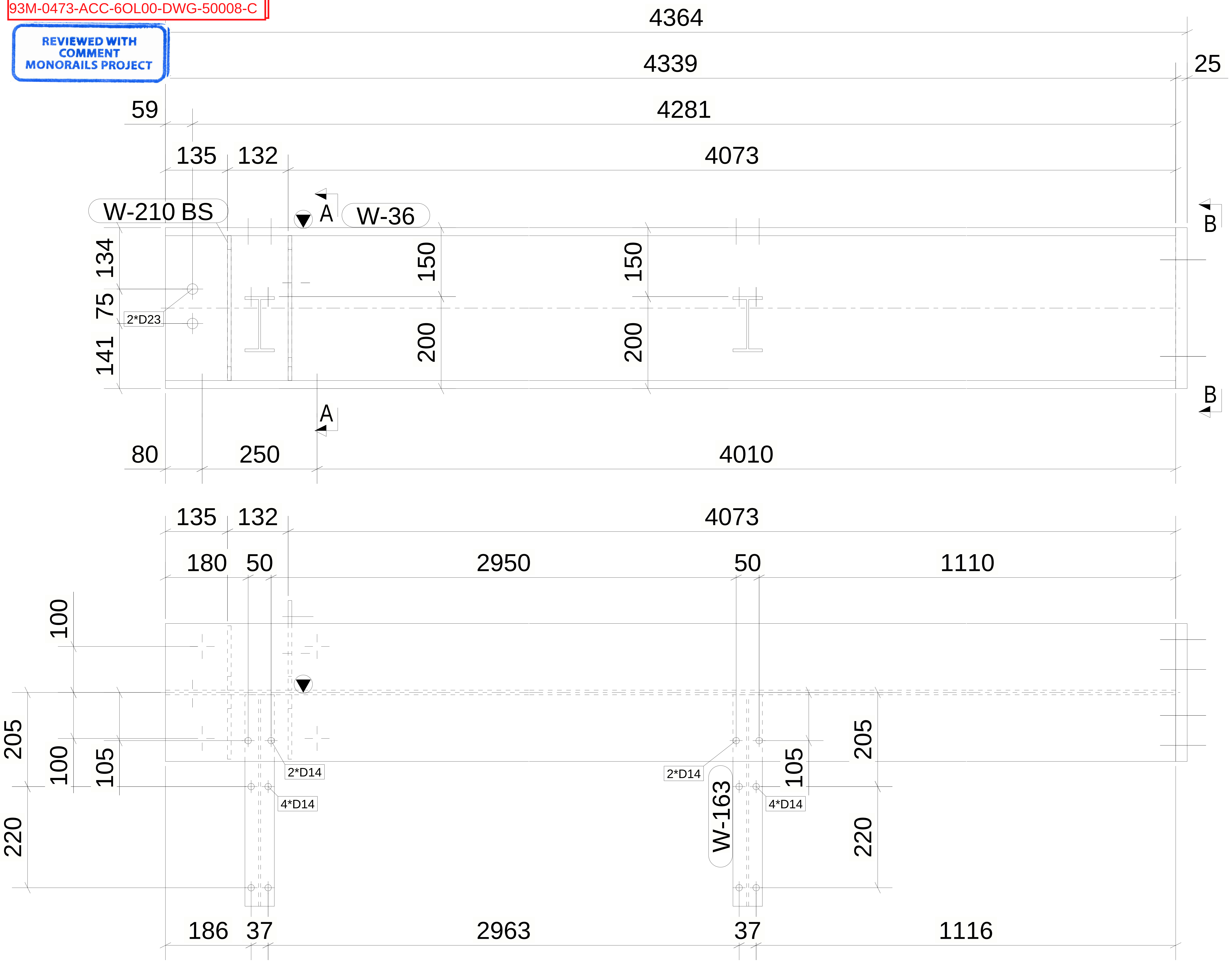
6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
BEAM : B-10

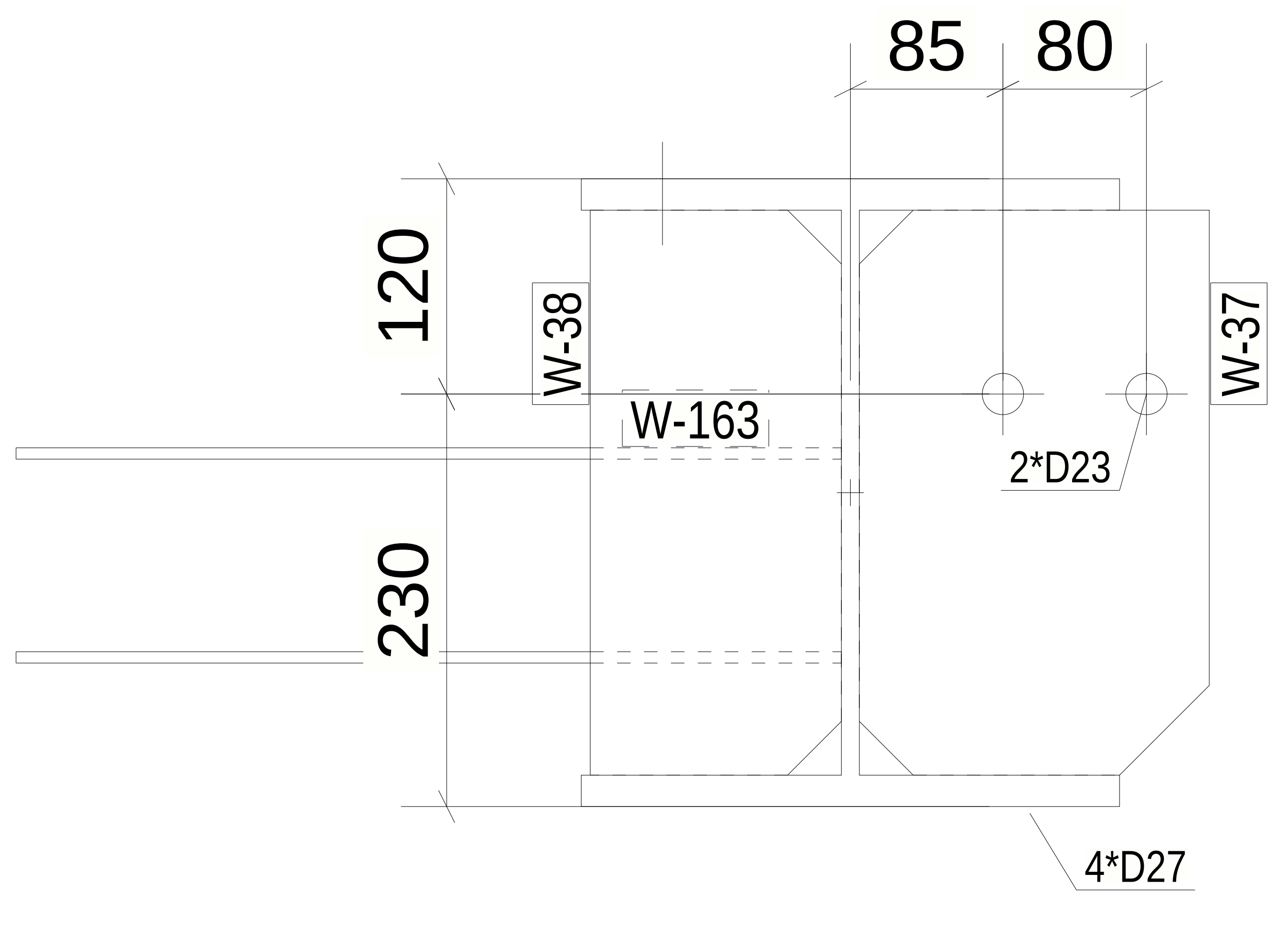
Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
93M	0473	ACC	60L00	DWG	50015	C

Tekla Structures

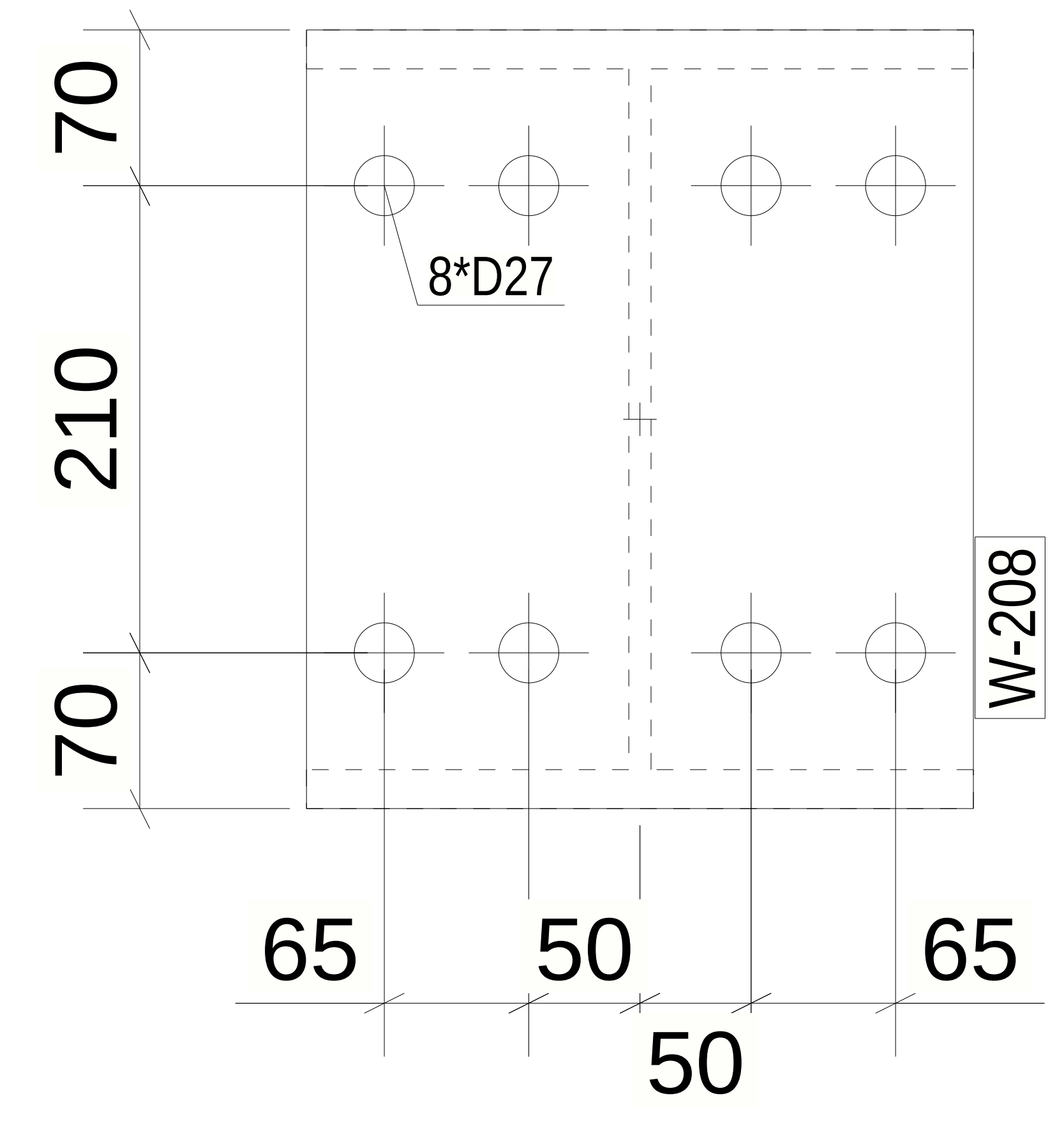
Same comments as
93M-0473-ACC-6OL00-DWG-50008-C

REVIEWED WITH
COMMENT
MONORAILS PROJECT


4364
4339
25
59
4281
135
132
4073
W-210 BS
A
W-36
B
134
75
141
2*D23
150
200
150
200
B
A
80
250
4010
135
132
4073
180
50
2950
50
1110
100
205
100
105
2*D14
4*D14
2*D14
W-163
105
4*D14
205
220
220
186
37
2963
37
1116


85
80
120
230
W-38
W-163
2*D23
W-37
4*D27

A - A


70
210
70
8*D27
W-208
65
50
65
50

B - B

MATERIAL LIST FOR ASSEMBLY MK'DB-11

Mark	Profile	GRADE	No.	Length	Area	Weight
W-36	HEA360	S355JR	1	4339	7.94	487.13
W-37	PL8*195	S355JR	1	315	0.13	3.72
W-38	PL8*140	S355JR	1	315	0.09	2.71
W-163	IPE120	S355JR	2	460	0.22	4.77
W-208	PL25*300	S355JR	1	350	0.24	20.61
W-210	PL8*140	S355JR	2	315	0.09	2.71
				Total	9.03	529.13

1 *REQUIRED AS DRAWN MARKED* B-11

6 October Monorail
Engineering Unit
Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2.WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3.ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority
Hill International
Consultant
Main Contractor
Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS

DRAWING TITLE

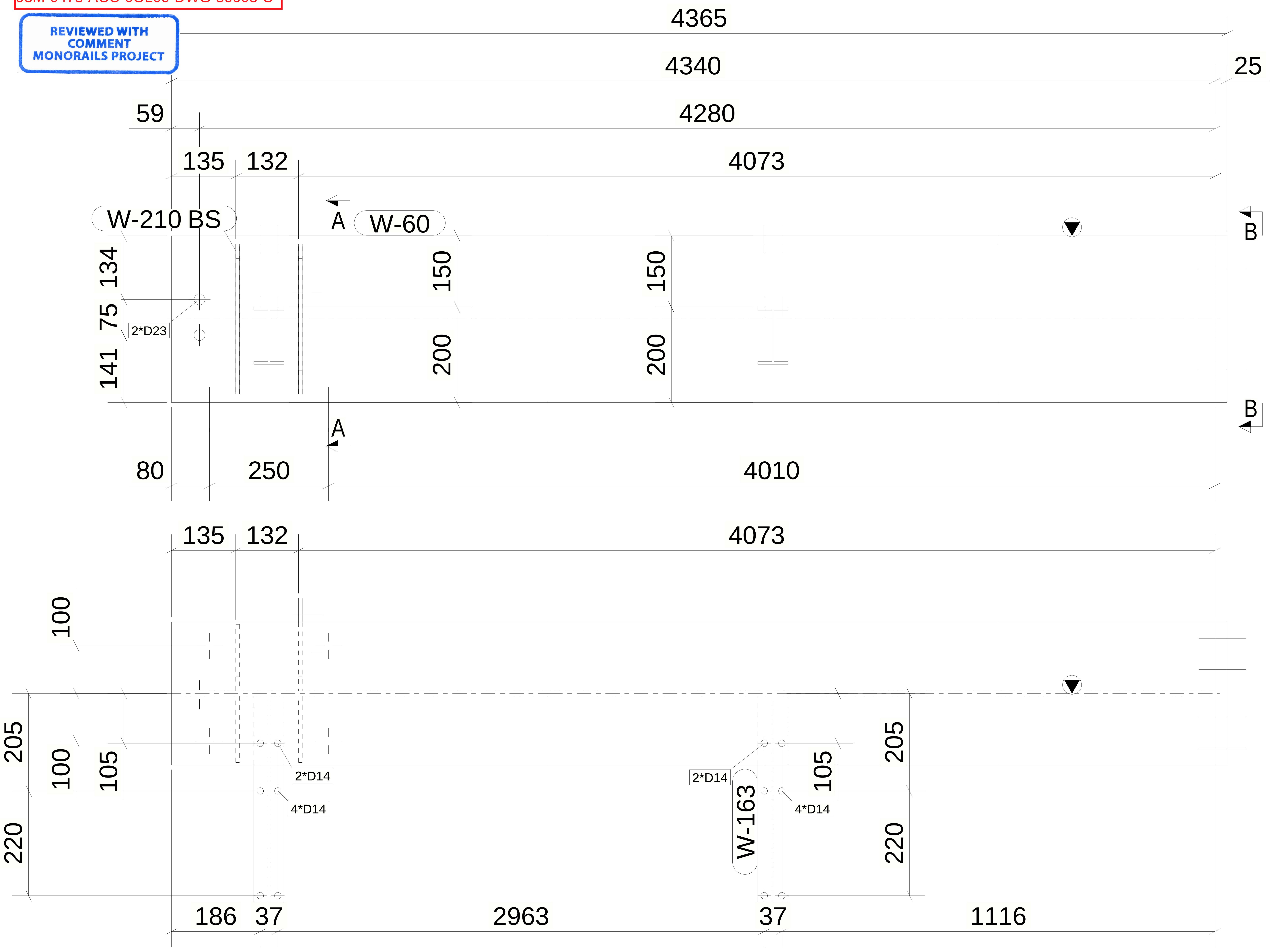
6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
BEAM : B-11

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
93M	0473	ACC	60L00	DWG	50016	C

Tekla Structures

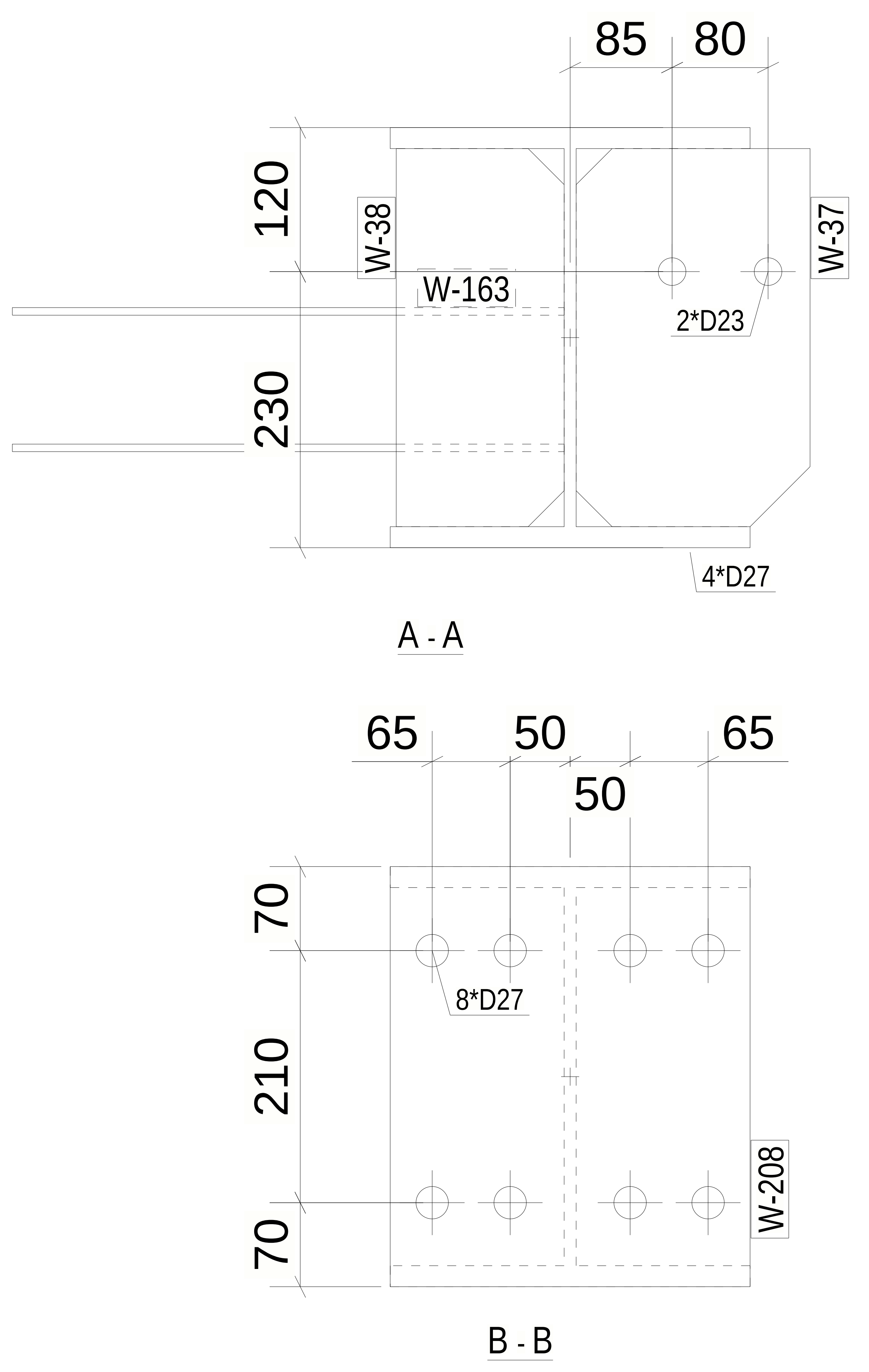
Same comments as
93M-0473-ACC-6OL00-DWG-50008-C

REVIEWED WITH
COMMENT
MONORAILS PROJECT


4365
4340
25
59
4280
135
132
4073
W-210 BS
A
W-60
B
134
75
141
2*D23
150
200
150
200
B
A
80
250
4010
135
132
4073
100
205
100
105
220
2*D14
4*D14
2*D14
W-163
105
4*D14
205
220
186
37
2963
37
1116

MATERIAL LIST FOR ASSEMBLY MK'DB-12

Mark	Profile	GRADE	No.	Length	Area	Weight
W-60	HEA360	S355JR	1	4340	7.94	487.13
W-37	PL8*195	S355JR	1	315	0.13	3.72
W-38	PL8*140	S355JR	1	315	0.09	2.71
W-163	IPE120	S355JR	2	460	0.22	4.77
W-208	PL25*300	S355JR	1	350	0.24	20.61
W-210	PL8*140	S355JR	2	315	0.09	2.71
				Total	9.03	529.13


85
80
120
W-38
W-163
2*D23
W-37
230
4*D27
A - A
65
50
65
50
70
8*D27
210
70
W-208
B - B

1 *REQUIRED AS DRAWN MARKED* B-12

6 October Monorail
Engineering Unit
Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority | Hill International | Consultant | Main Contractor | Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS

DRAWING TITLE

6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
BEAM : B-12

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
93M	0473	ACC	60L00	DWG	50017	C

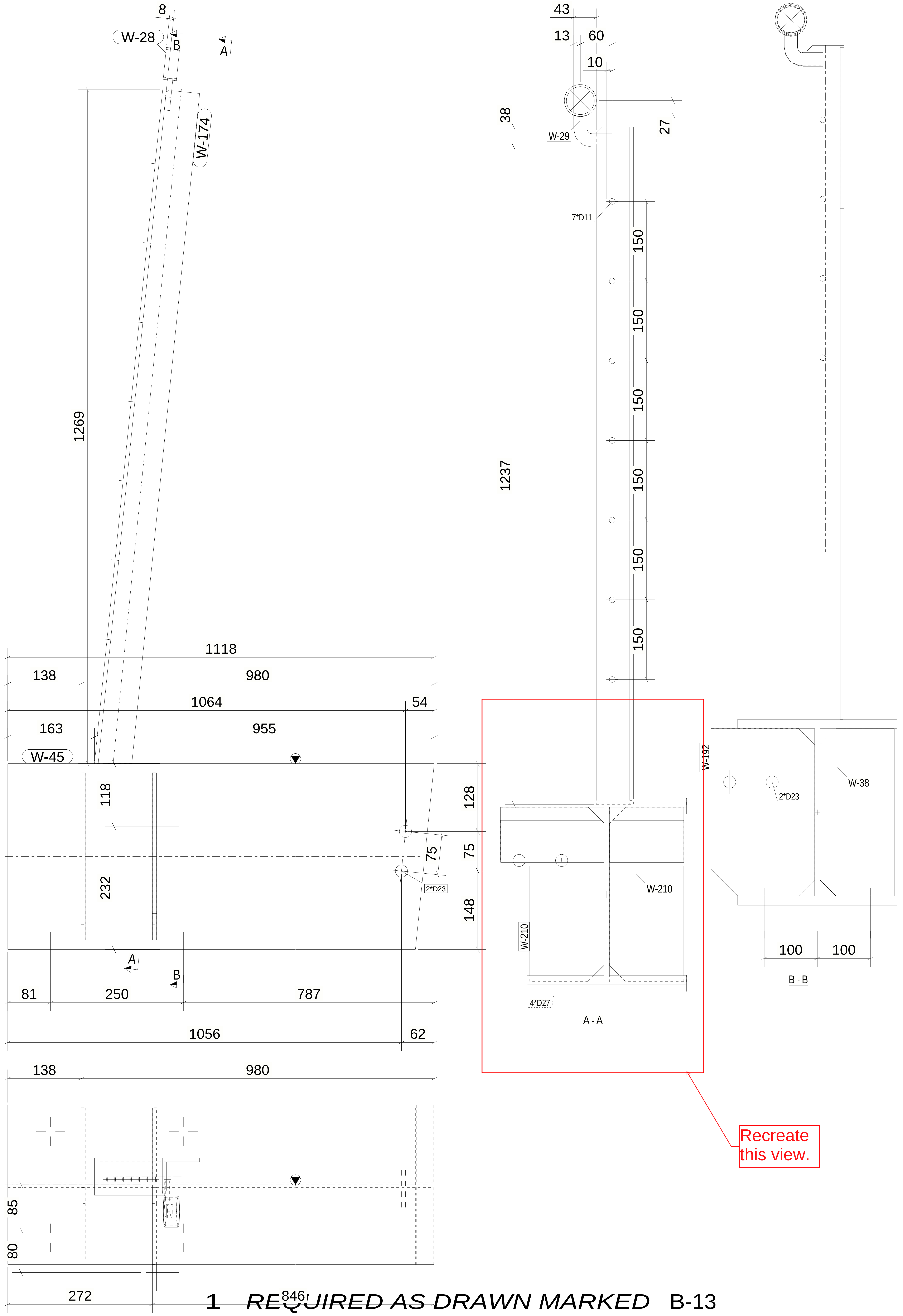
Tekla Structures

REVIEWED WITH COMMENT MONORAILS PROJECT

Same comments as 93M-0473-ACC-6OL00-DWG-50008-C.

MATERIAL LIST FOR ASSEMBLY MK'D B-13

Mark	Profile	GRADE	No.	Length	Area	Weight
W-45	HEA360	S355JR	1	1118	2.05	125.52
W-28	PIPE2SCH40	S355JR	1	25	0.01	0.13
W-29	PL25*10	S355JR	1	98	0.01	0.19
W-38	PL8*140	S355JR	1	315	0.09	2.71
W-174	L70*7	S235JR	1	1275	0.35	9.41
W-192	PL8*195	S355JR	1	315	0.13	3.72
W-210	PL8*140	S355JR	2	315	0.09	2.71
				Total	2.81	147.10


8
W-28
B
A
W-174
1269
1118
138
980
1064
54
163
955
W-45
118
232
128
75
75
148
2*D23
A
B
81
250
787
1056
62
138
980
85
80
272
846
43
13
60
10
38
27
W-29
7*D11
150
150
150
150
150
150
1237
W-192
W-210
W-210
4*D27
A - A
2*D23
W-38
100
100
B - B

Recreate this view.

1 REQUIRED AS DRAWN MARKED B-13

6 October Monorail Engineering Unit Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority

Hill International

Consultant

Main Contractor

Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS
C	07.05.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
B	22.04.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
A	22.02.2023	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI

DRAWING TITLE

6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
BEAM : B-13

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
93M	0473	ACC	60L00	DWG	50018	C

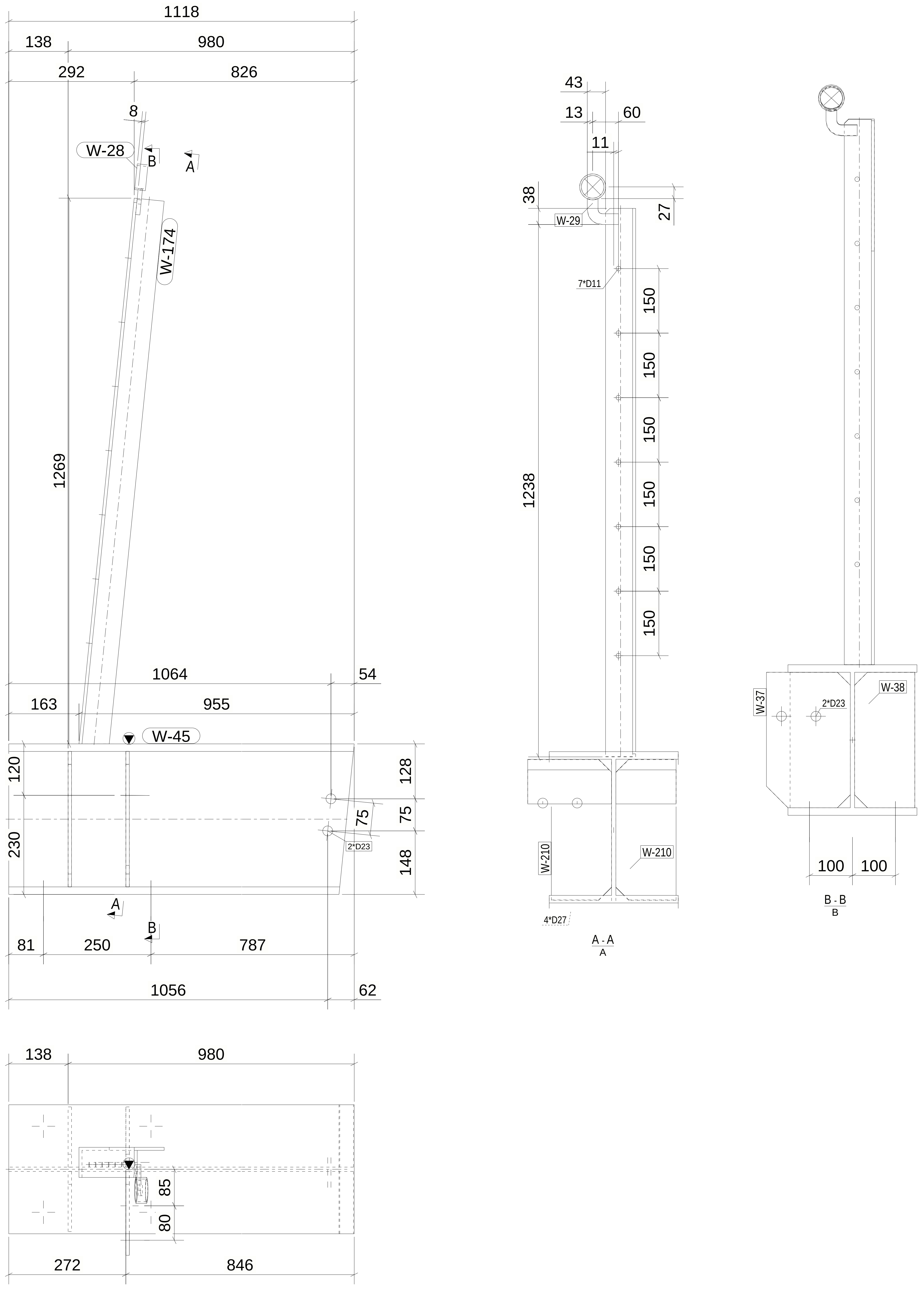
Tekla Structures

REVIEWED WITH COMMENT
MONORAILS PROJECT

Same comments as
93M-0473-ACC-6OL00-DWG-50008-C.

MATERIAL LIST FOR ASSEMBLY MK'DB-14

Mark	Profile	GRADE	No.	Length	Area	Weight
W-45	HEA360	S355JR	1	1118	2.05	125.52
W-28	PIPE2SCH40	S355JR	1	25	0.01	0.13
W-29	PL25*10	S355JR	1	98	0.01	0.19
W-37	PL8*195	S355JR	1	315	0.13	3.72
W-38	PL8*140	S355JR	1	315	0.09	2.71
W-174	L70*7	S235JR	1	1275	0.35	9.41
W-210	PL8*140	S355JR	2	315	0.09	2.71
				Total	2.81	147.10


1118
138
980
292
826
8
W-28
B
A
W-174
1269
1064
54
163
955
W-45
120
230
128
75
75
148
2*D23
A
B
81
250
787
1056
62
43
13
60
11
38
27
W-29
7*D11
150
150
150
150
150
150
1238
W-210
W-210
4*D27
A - A
A
W-37
W-38
2*D23
100
100
B - B
B
138
980
85
80
272
846

1 *REQUIRED AS DRAWN MARKED* B-14

6 October Monorail
Engineering Unit
Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority
Hill International
Consultant
Main Contractor
Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS
C	07.05.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
B	22.04.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
A	22.02.2023	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI

DRAWING TITLE
6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
BEAM : B-14

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
93M	0473	ACC	60L00	DWG	50019	C

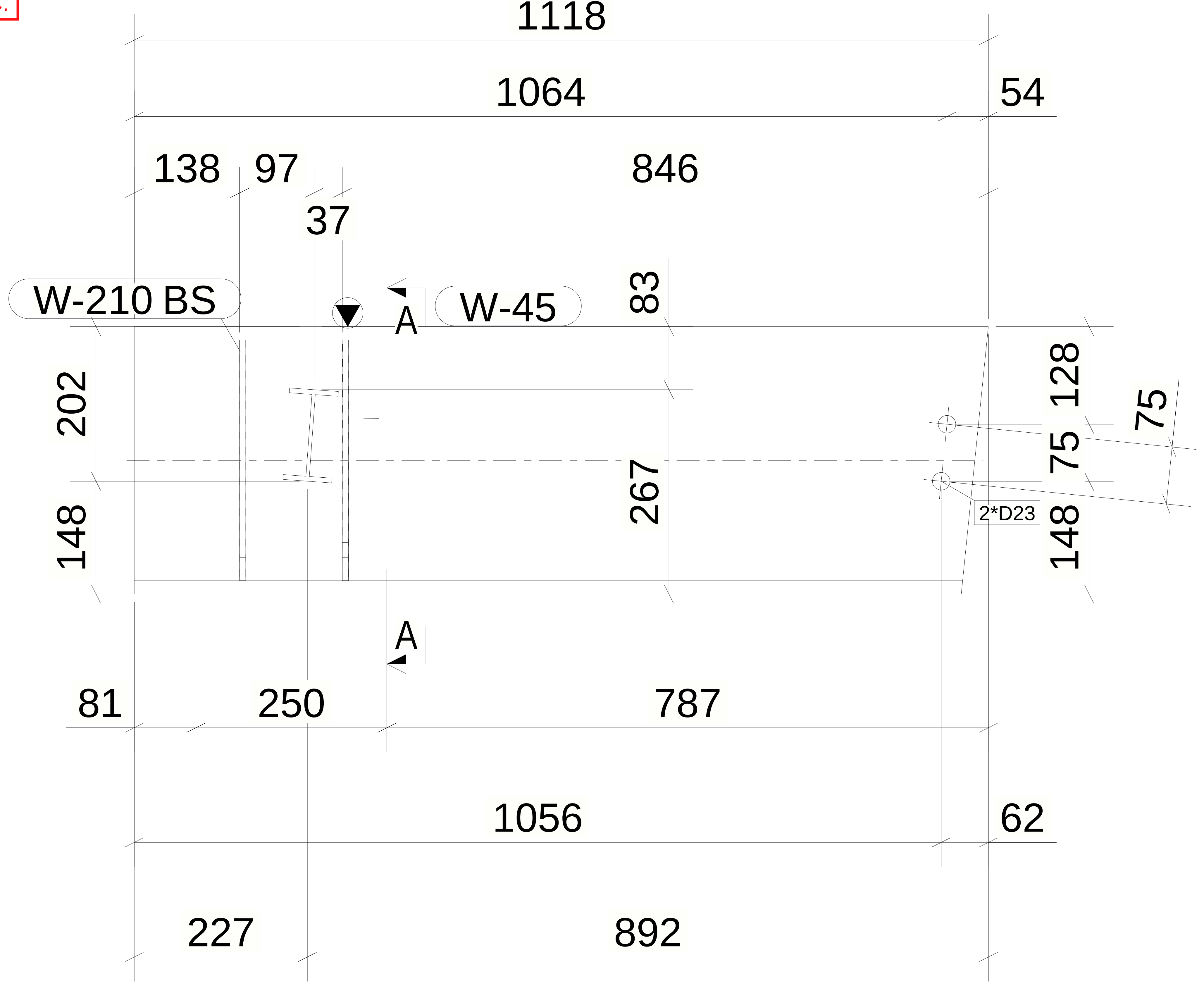
Tekla Structures

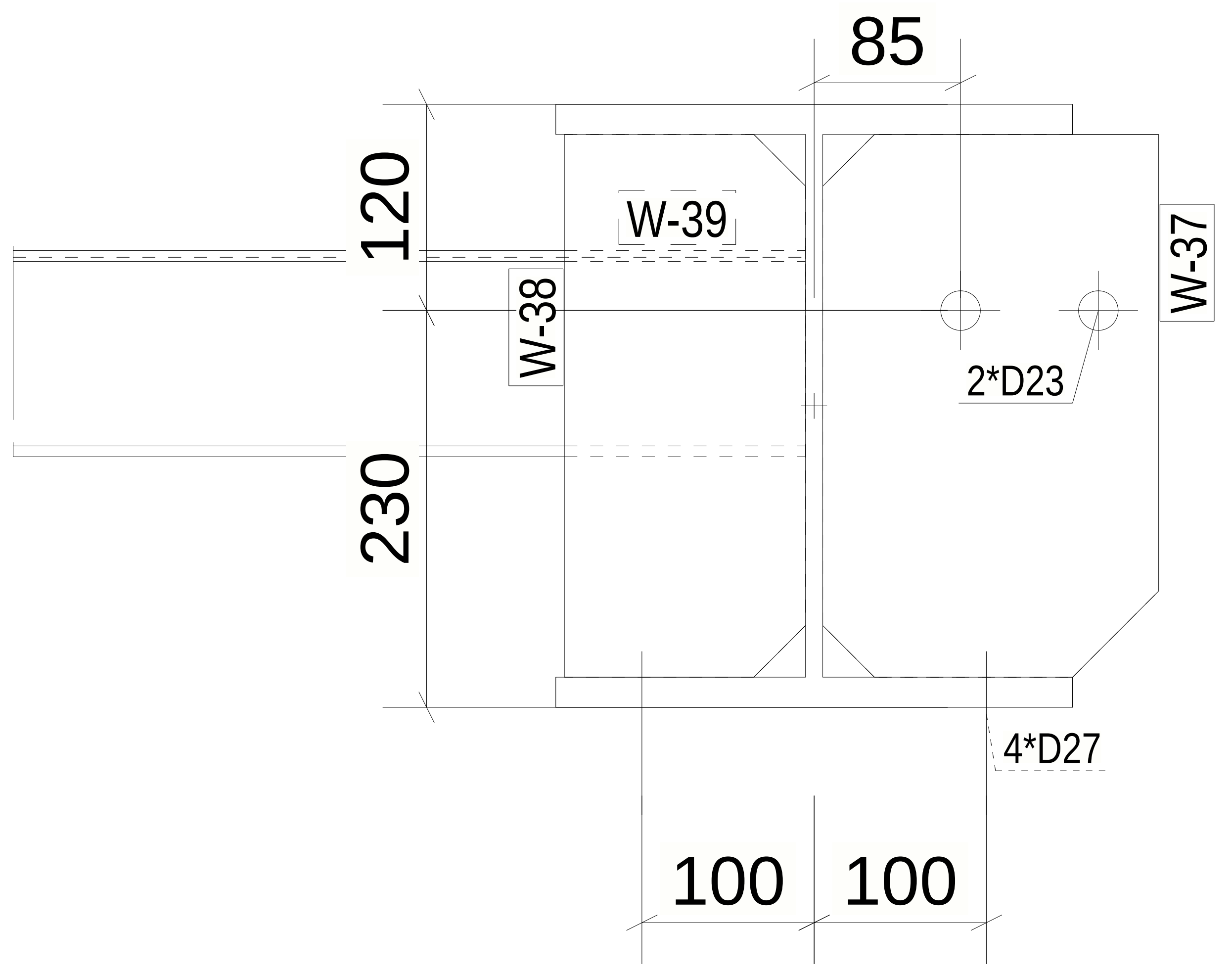
Same comments as
93M-0473-ACC-6OL00-DWG-50008-C.

REVIEWED WITH COMMENT MONORAILS PROJECT

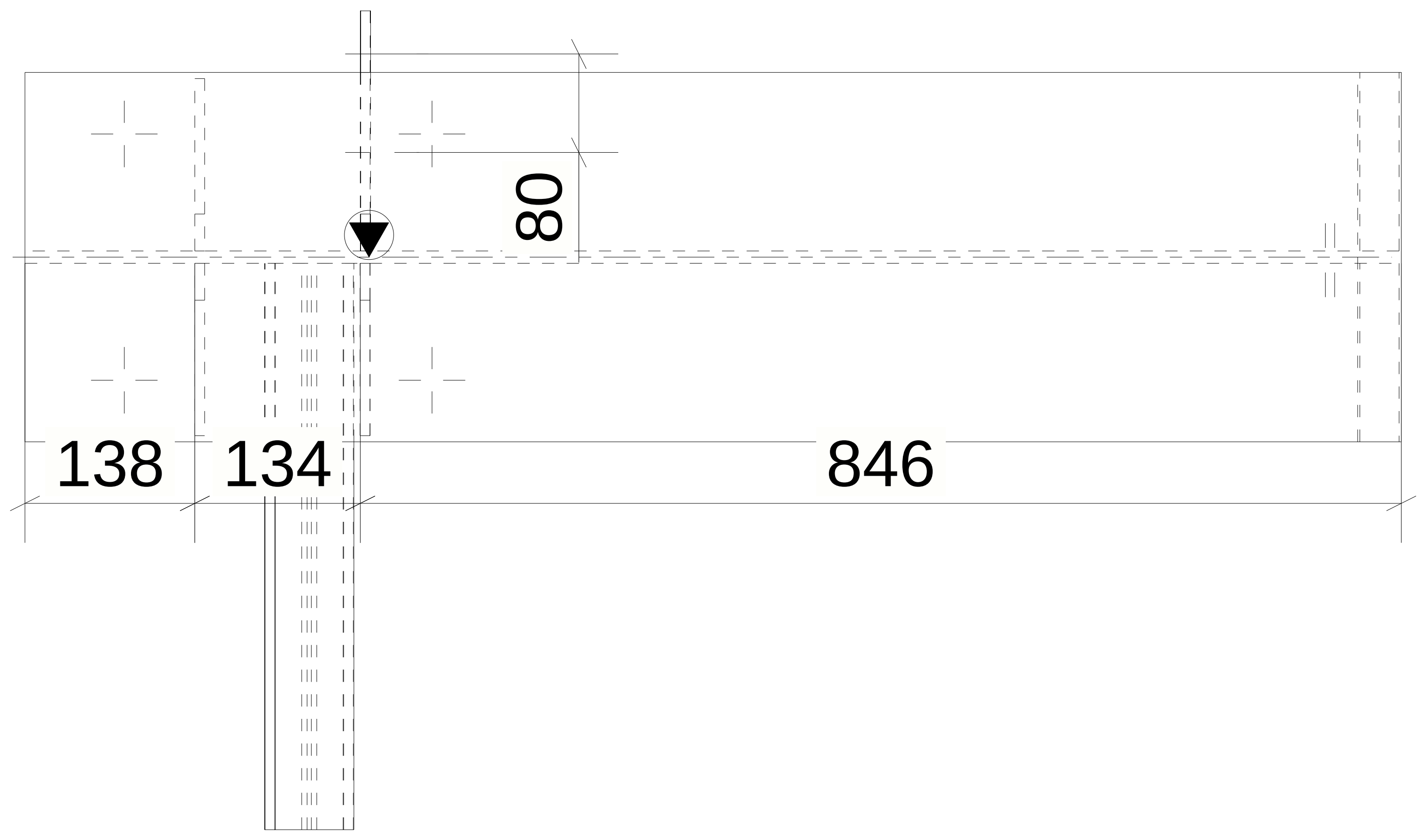
MATERIAL LIST FOR ASSEMBLY MK'DB-15

Mark	Profile	GRADE	No.	Length	Area	Weight
W-45	HEA360	S355JR	1	1118	2.05	125.52
W-37	PL8*195	S355JR	1	315	0.13	3.72
W-38	PL8*140	S355JR	1	315	0.09	2.71
W-39	IPE120	S355JR	1	460	0.22	4.77
W-210	PL8*140	S355JR	2	315	0.09	2.71
				Total	2.67	142.14


1118
1064
54
138
97
846
37
W-210 BS
A
W-45
83
202
148
267
128
75
75
148
2*D23
A
81
250
787
1056
62
227
892


85
120
230
W-39
W-38
W-37
2*D23
4*D27
100
100

A - A


80
138
134
846

2 *REQUIRED AS DRAWN MARKED* B-15

6 October Monorail
Engineering Unit
Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2.WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3.ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority

Consultant

Main Contractor

Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS

DRAWING TITLE

6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
BEAM : B-15

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
93M	0473	ACC	60L00	DWG	50020	C

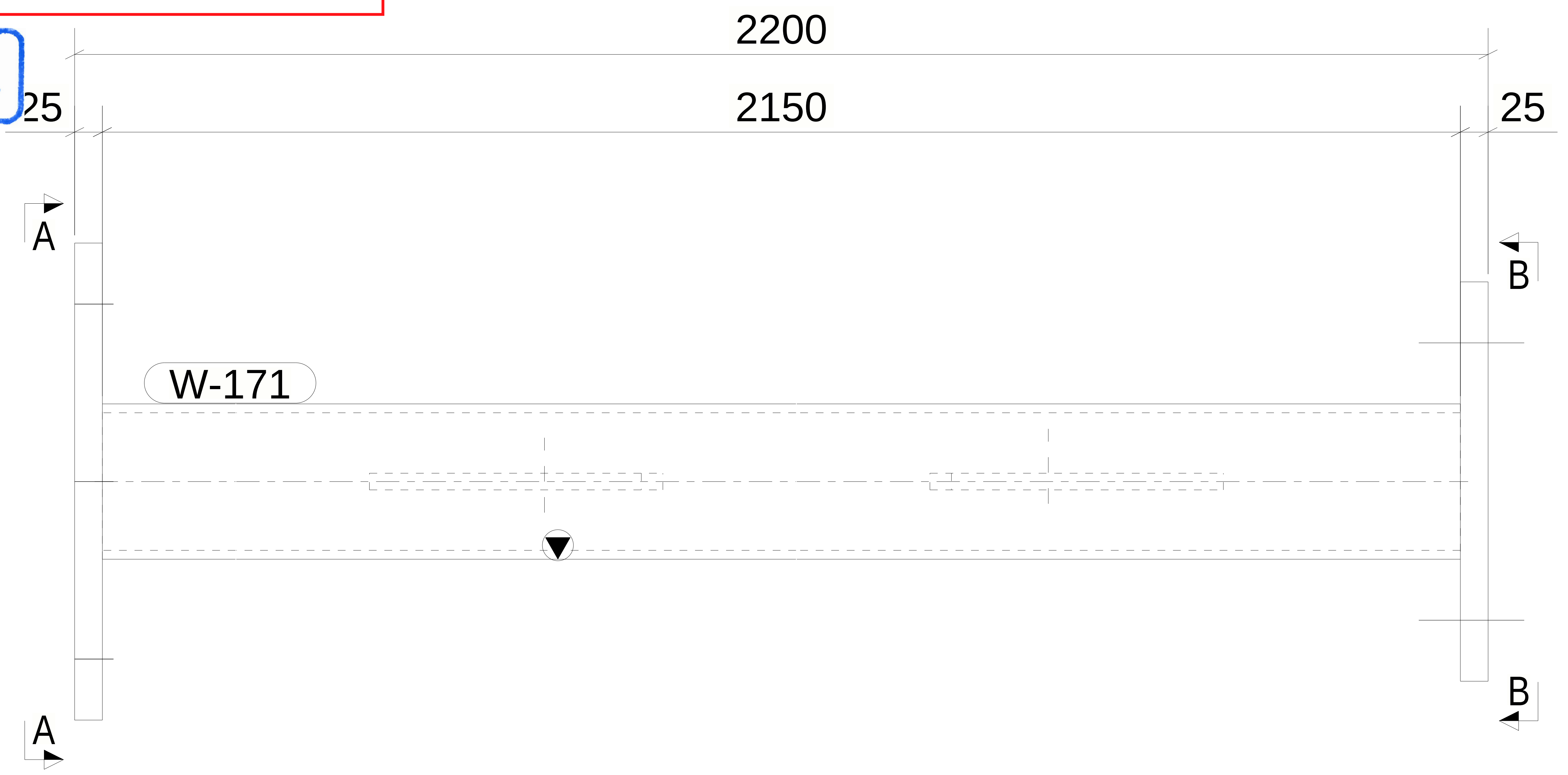
Tekla Structures

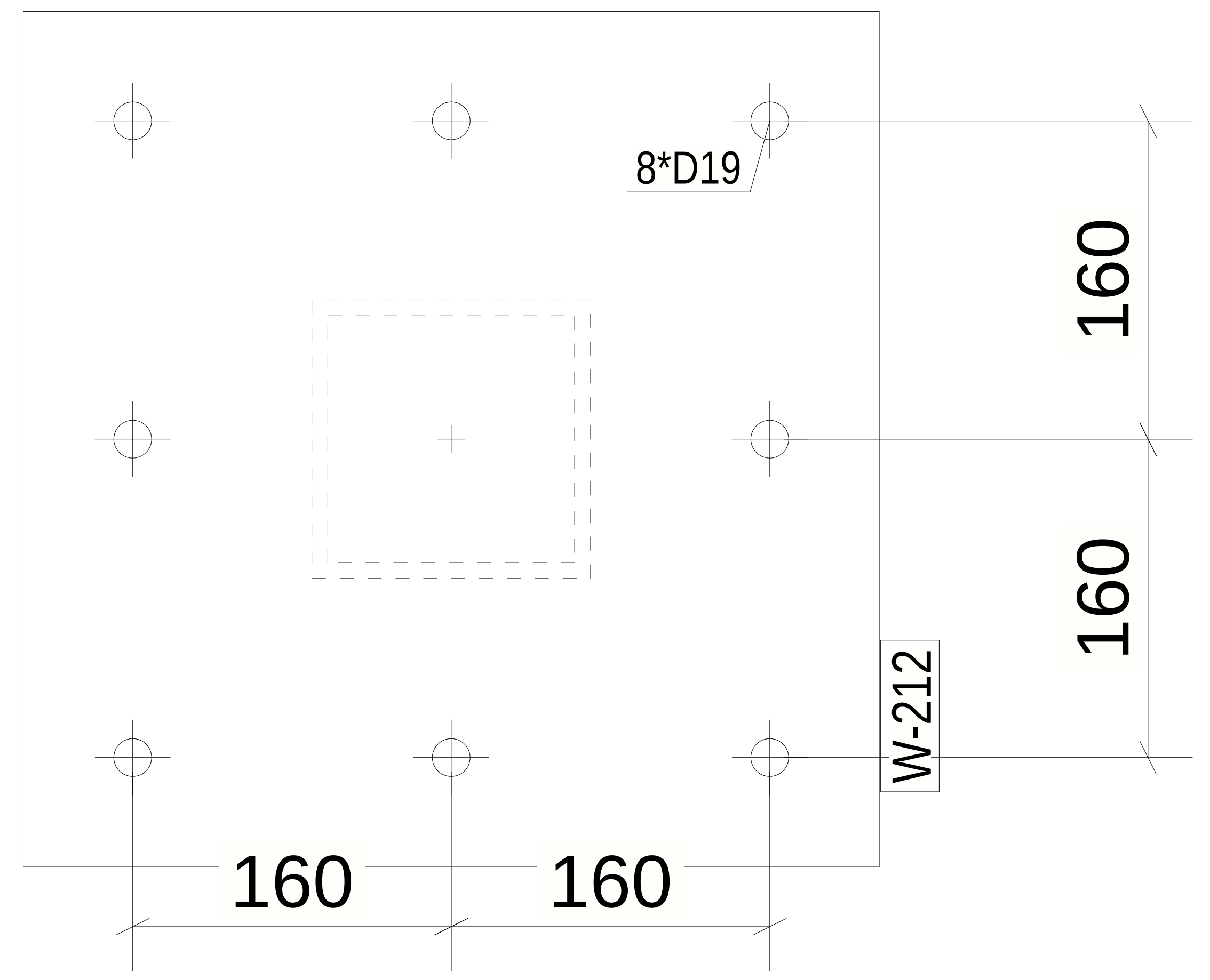
Drawing shall be updated accordingto the comments on the GA drawing.

REVIEWED WITH COMMENT
MONORAILS PROJECT

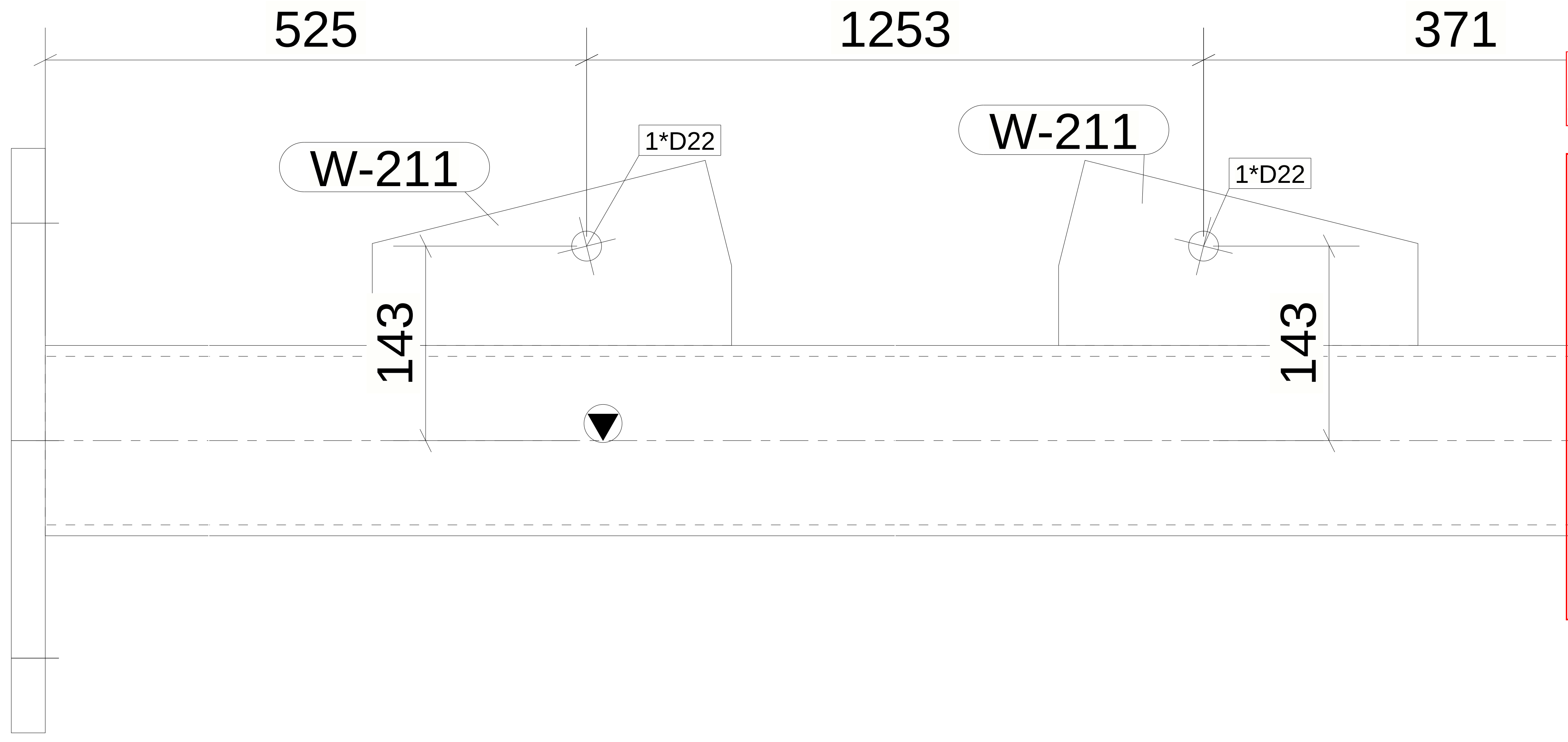
MATERIAL LIST FOR ASSEMBLY MK'DC-1

Mark	Profile	GRADE	No.	Length	Area	Weight
W-171	SHS140*8	S355JR	1	2150	1.21	71.29
W-209	PL25*300	S355JR	1	360	0.25	21.20
W-211	PL15*136	S355JR	2	265	0.07	3.27
W-212	PL25*430	S355JR	1	430	0.41	36.29
				Total	2.00	135.31

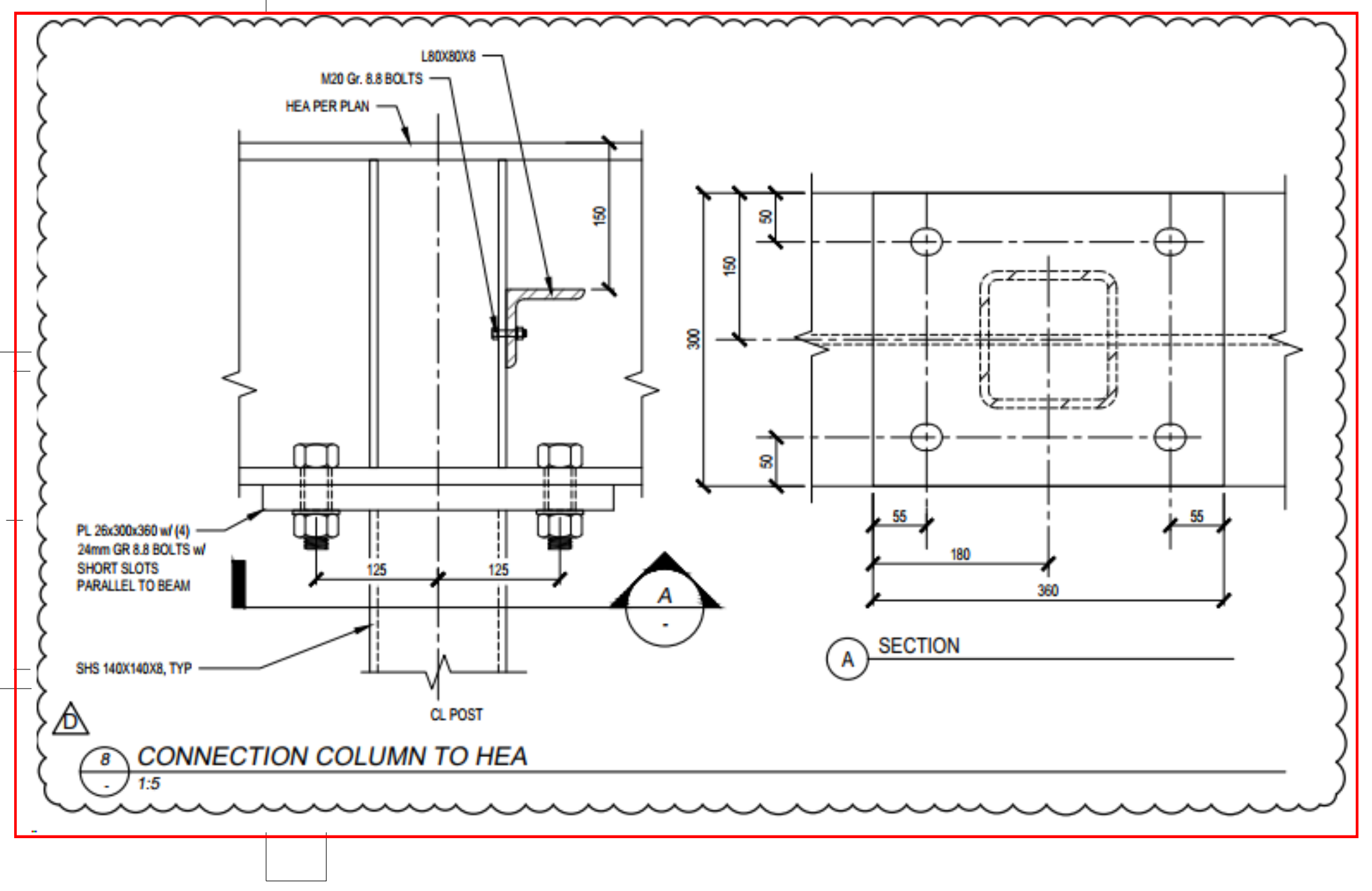

2200
25
2150
25
A
B
W-171
B
A


8*D19
160
160
W-212
160
160

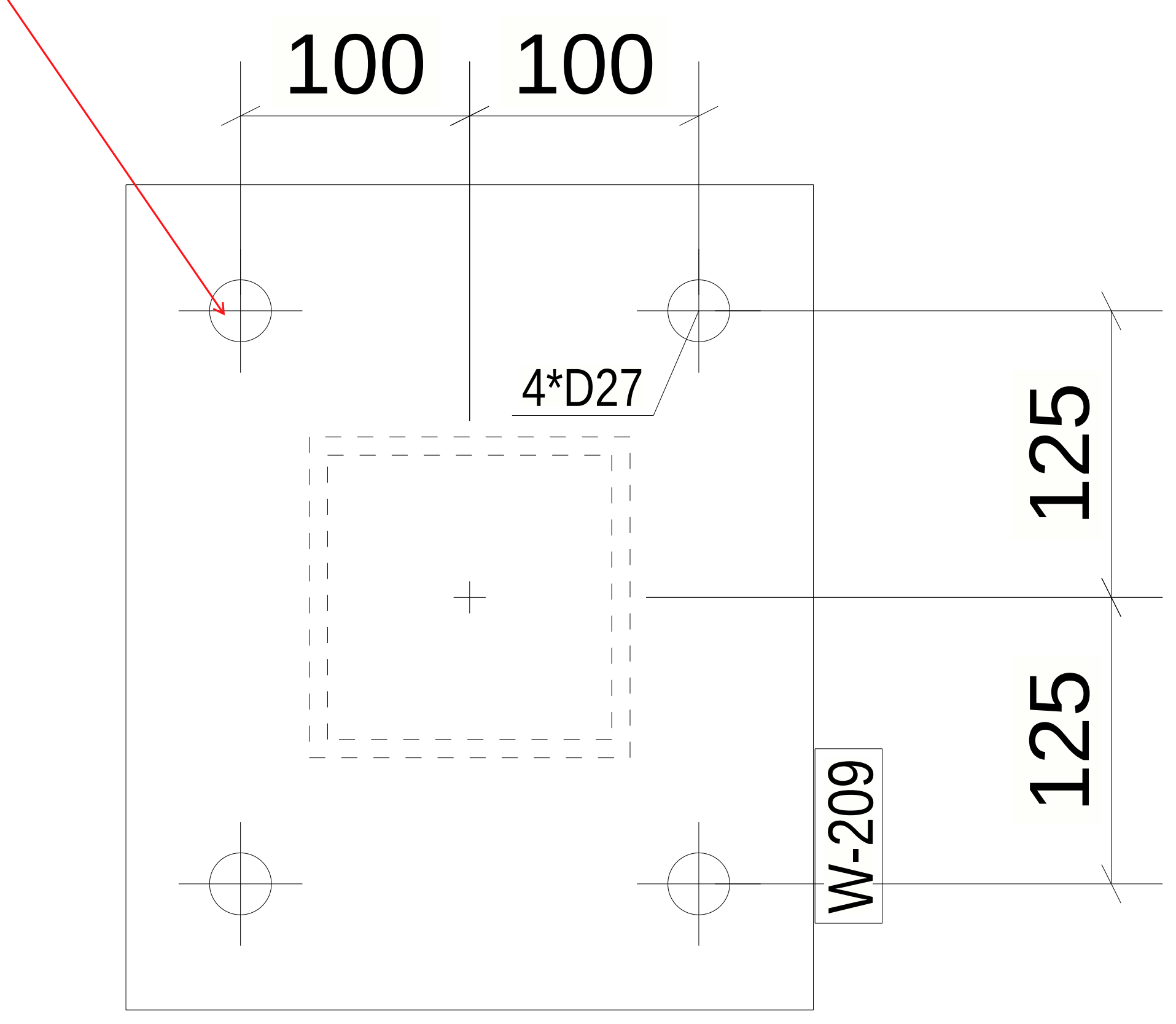
A - A
A


525
1253
371
W-211
1*D22
W-211
1*D22
143
143

Please refer to the design reference snap below for the size of slot and show it on the drawing.


L80X80X8
M20 Gr. 8.8 BOLTS
HEA PER PLAN
150
150
50
300
50
PL 26x300x360 w/ (4) 24mm GR 8.8 BOLTS w/ SHORT SLOTS PARALLEL TO BEAM
125
125
SHS 140X140X8, TYP
CL POST
A
55
180
55
360
A SECTION
D
8
1:5

CONNECTION COLUMN TO HEA


100
100
4*D27
125
125
W-209

B - B
B

4 *REQUIRED AS DRAWN MARKED* C-1

6 October Monorail
Engineering Unit
Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority
Hill International
Consultant
Main Contractor
Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS

DRAWING TITLE

6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
WALK WAY : C-1

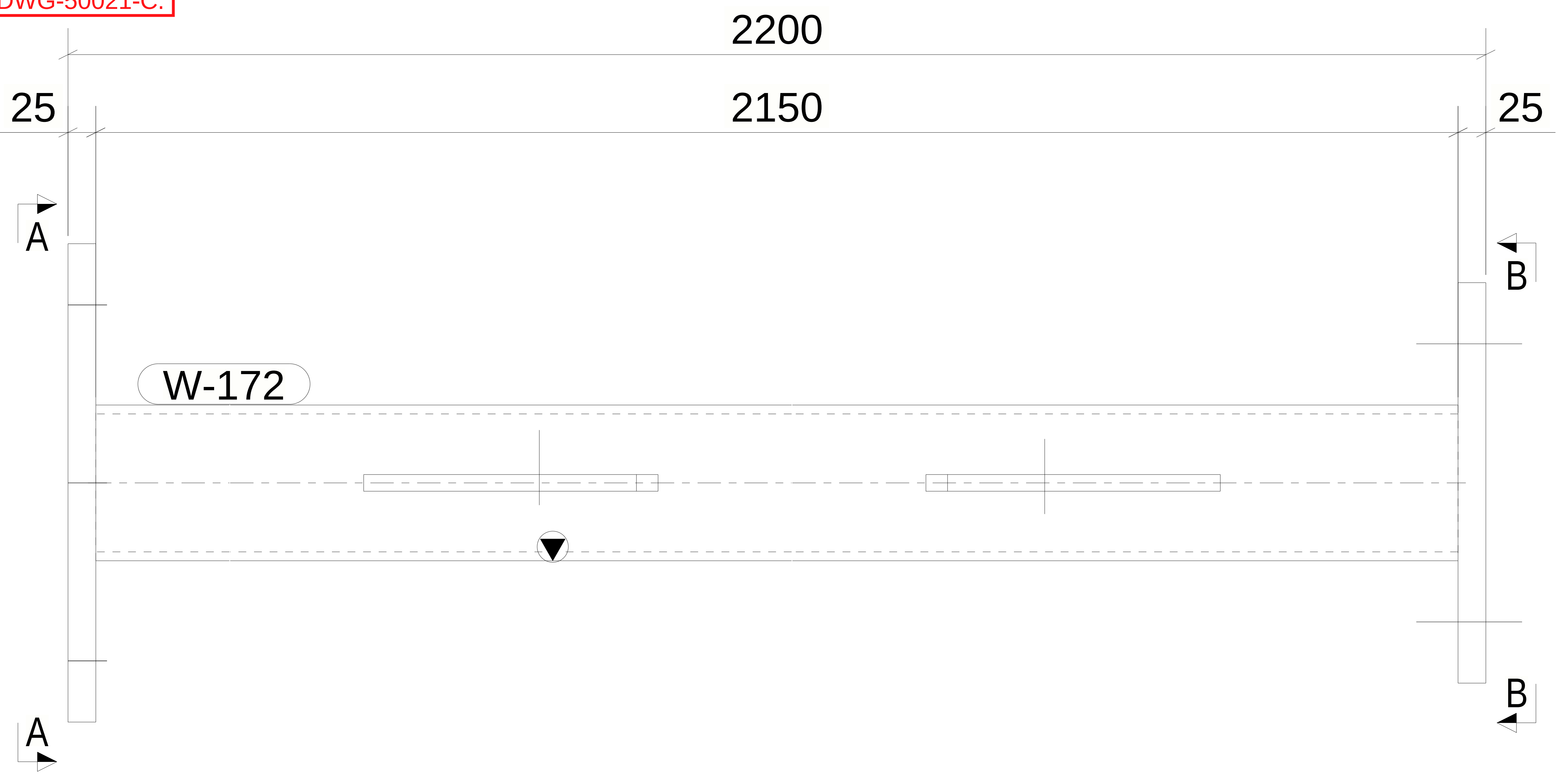
Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
9 3 M	0 4 7 3	A C C	6 0 L 0 0	D W G	5 0 0 2 1	C

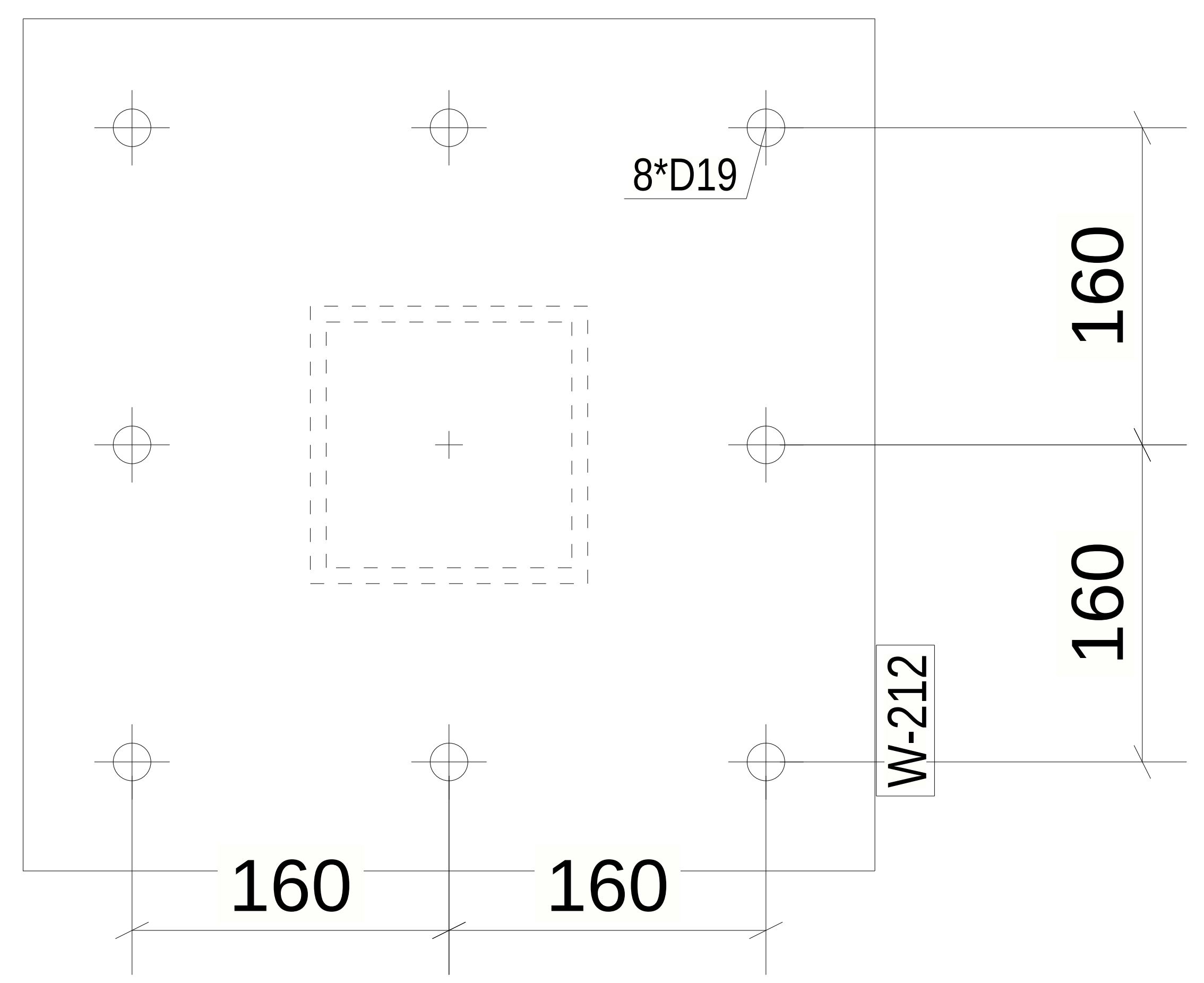
Tekla Structures

Same comments as
93M-0473-ACC-6OL00-DWG-50021-C.

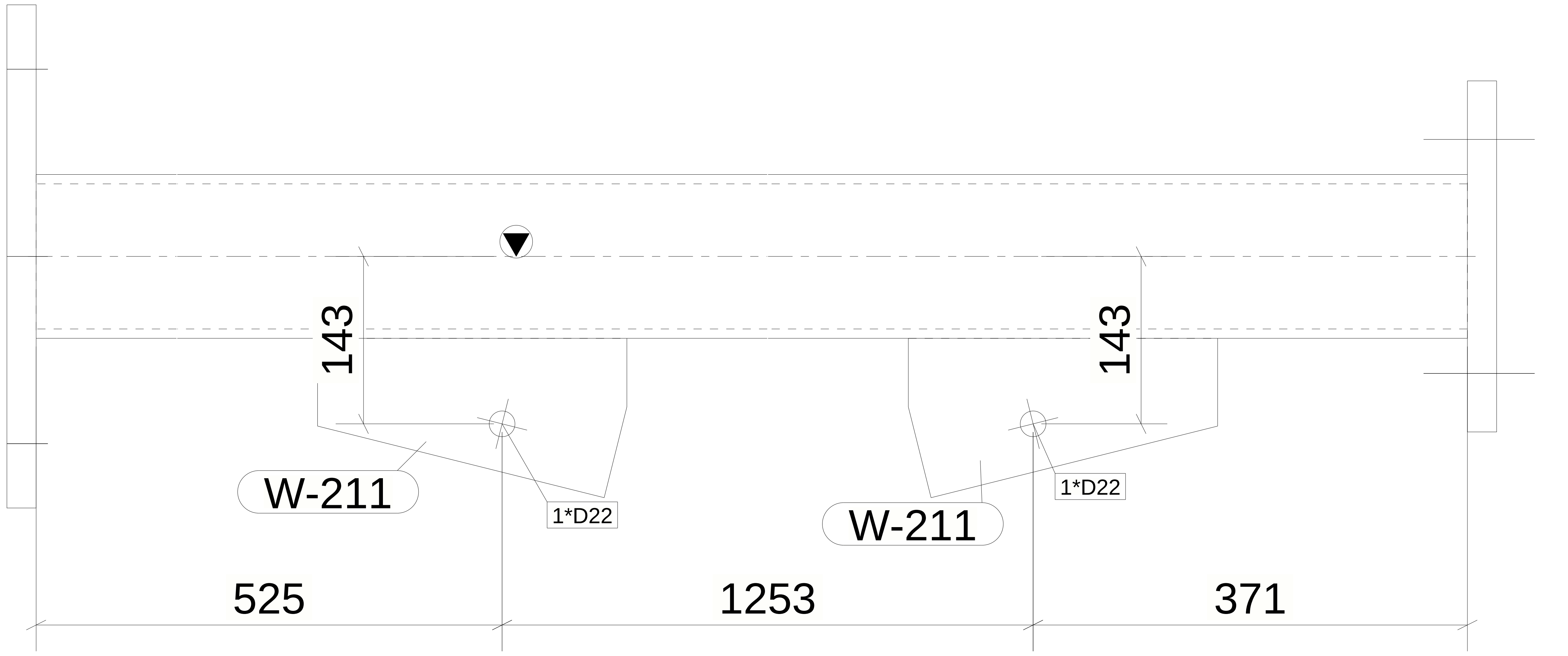
REVIEWED WITH
COMMENT
MONORAILS PROJECT

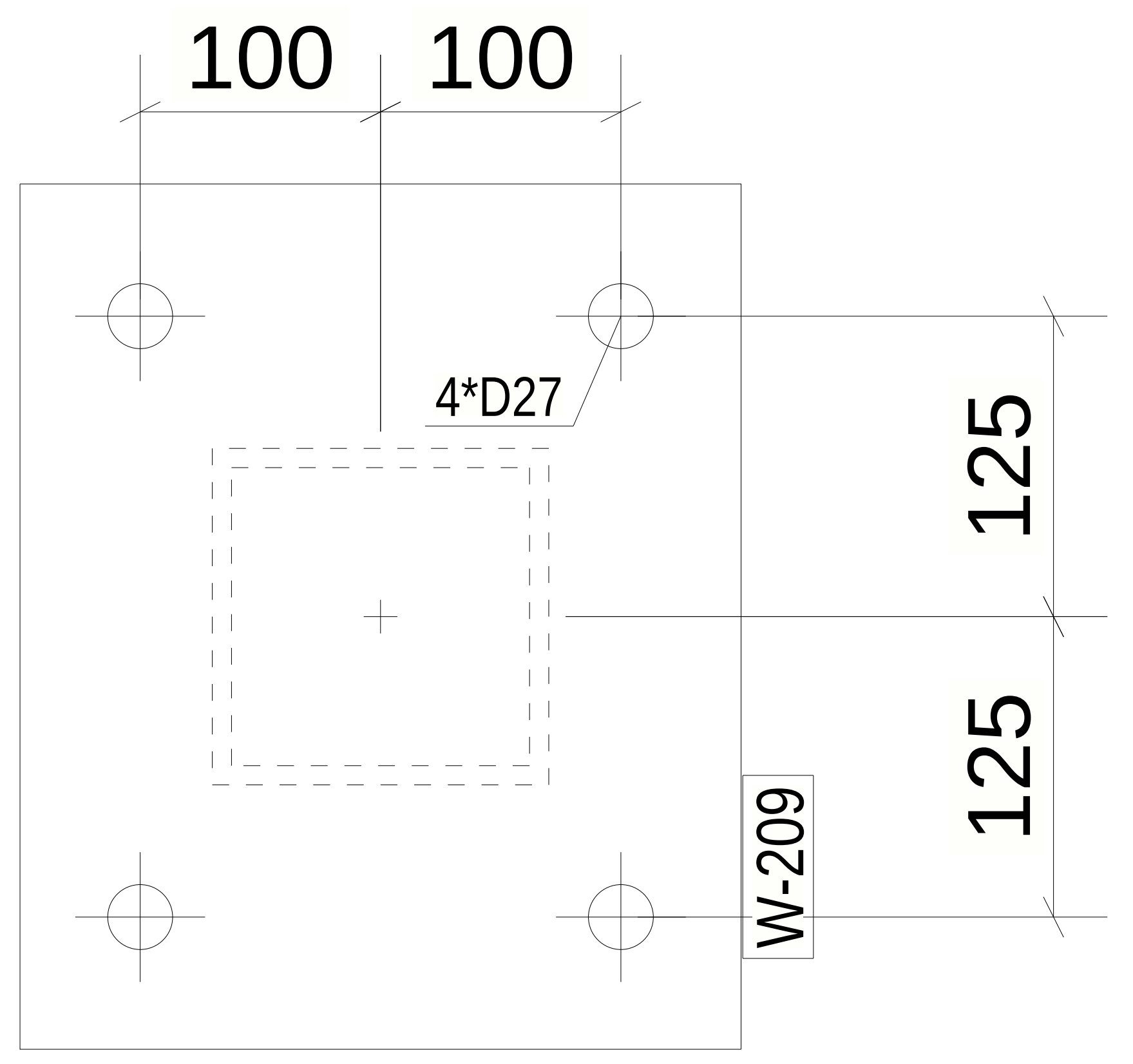
MATERIAL LIST FOR ASSEMBLY MK'DC-2						
Mark	Profile	GRADE	No.	Length	Area	Weight
W-172	SHS140*8	S355JR	1	2150	1.21	71.29
W-209	PL25*300	S355JR	1	360	0.25	21.20
W-211	PL15*136	S355JR	2	265	0.07	3.27
W-212	PL25*430	S355JR	1	430	0.41	36.29
				Total	2.00	135.31





A - A
A





B - B
B

4 REQUIRED AS DRAWN MARKED C-2

6 October Monorail
Engineering Unit
Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority
Hill International
Consultant
Main Contractor
Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS

DRAWING TITLE

6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
WALK WAY : C-2

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
9 3 M	0 4 7 3	A C C	6 0 L 0 0	D W G	5 0 0 2 2	C

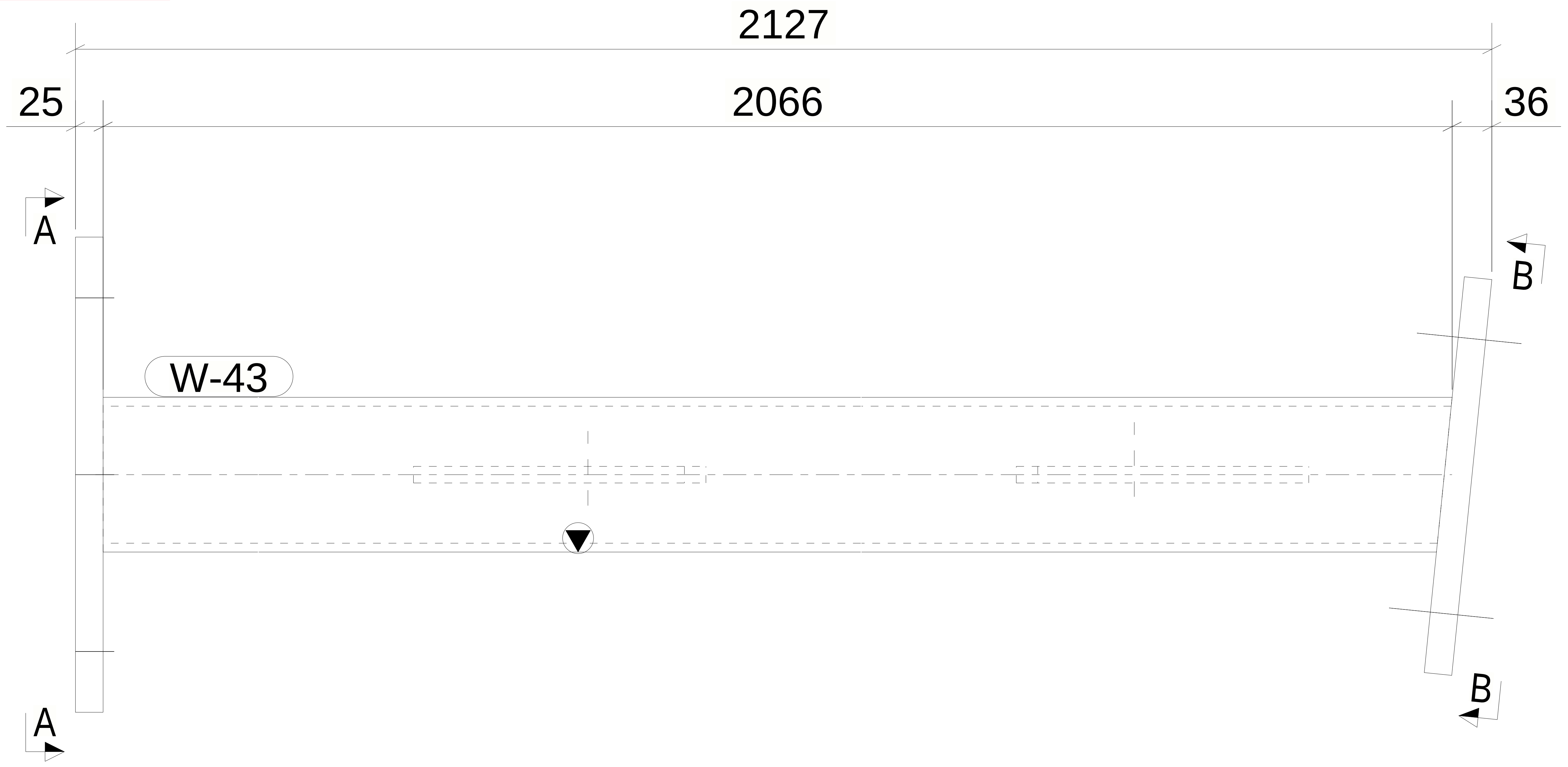
Tekla Structures

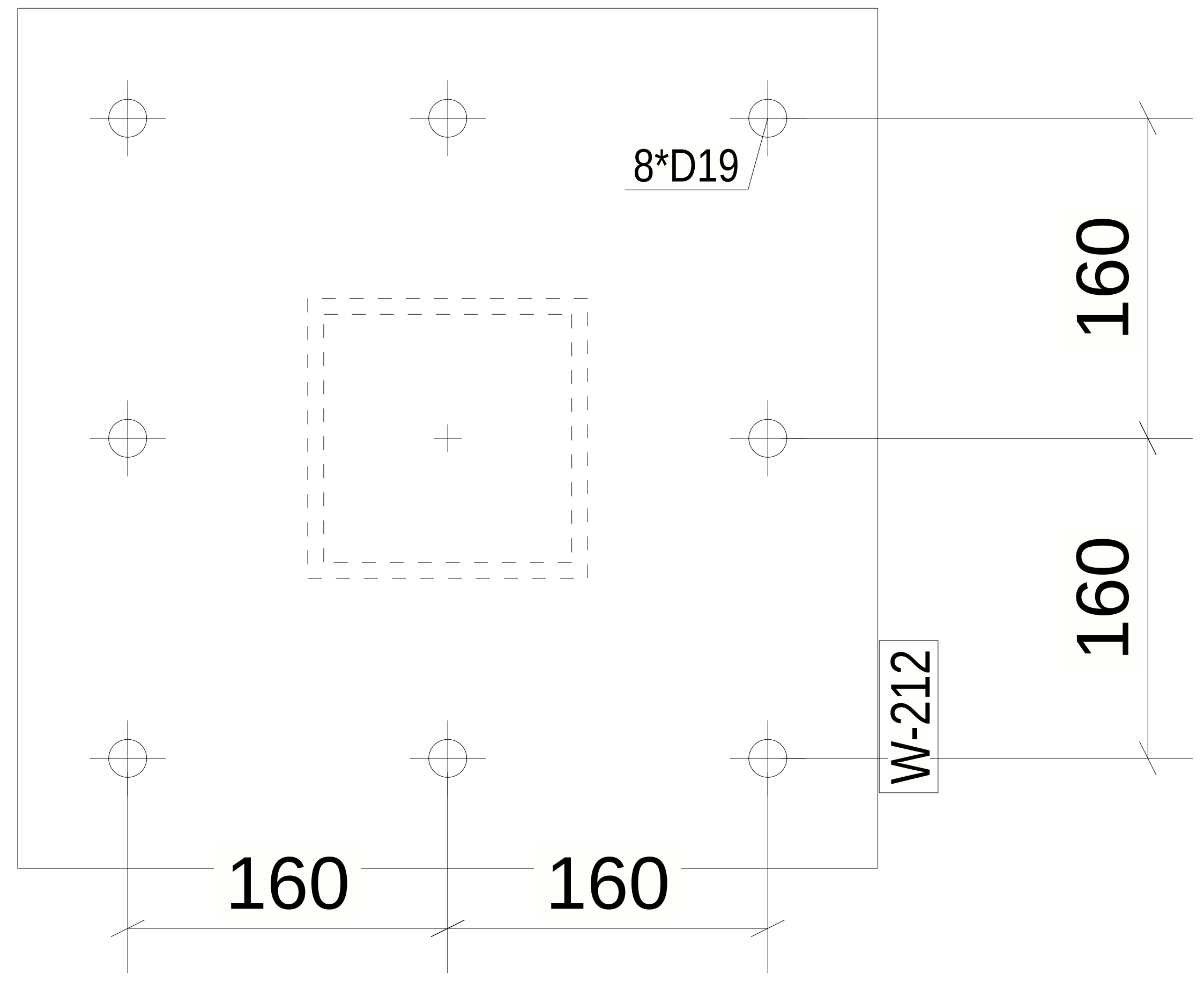
Same comments as
93M-0473-ACC-6OL00-DWG-50021-C.

**REVIEWED WITH COMMENT
MONORAILS PROJECT**

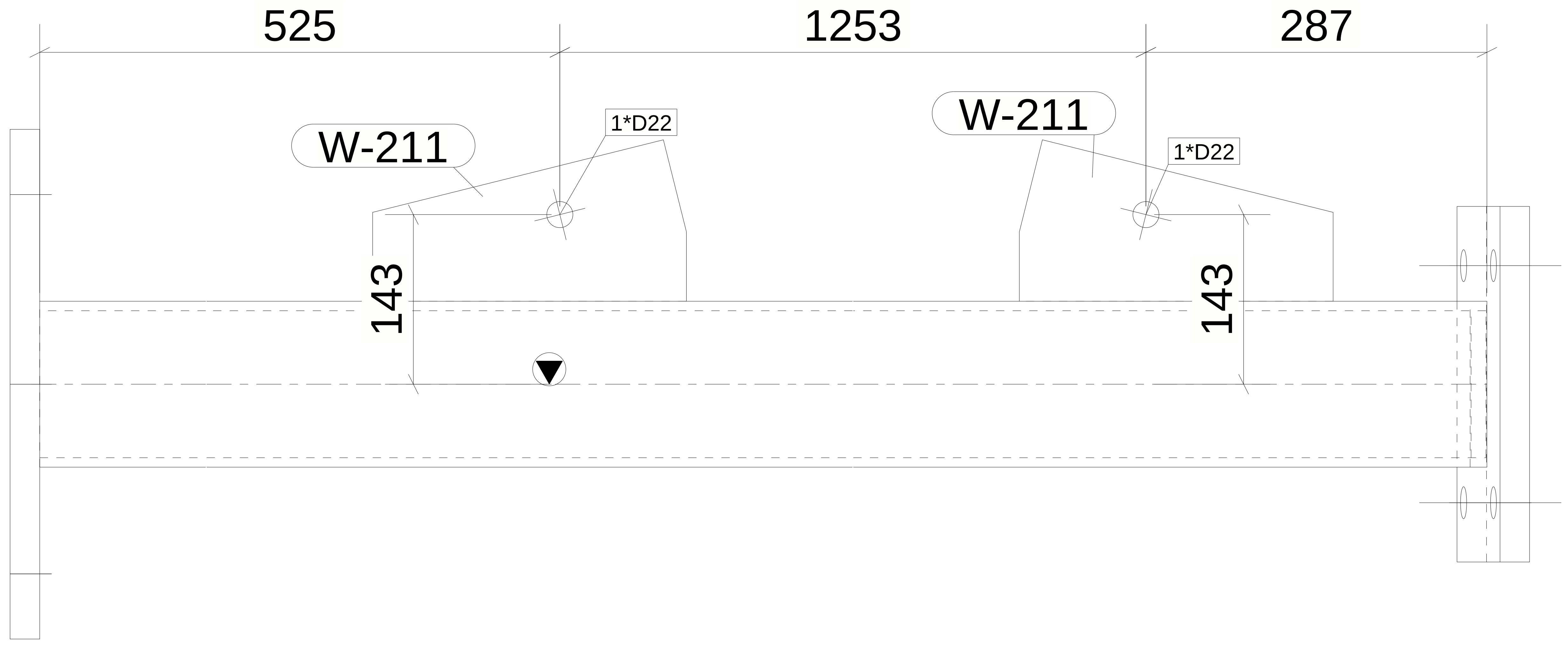
MATERIAL LIST FOR ASSEMBLY MK'DC-3

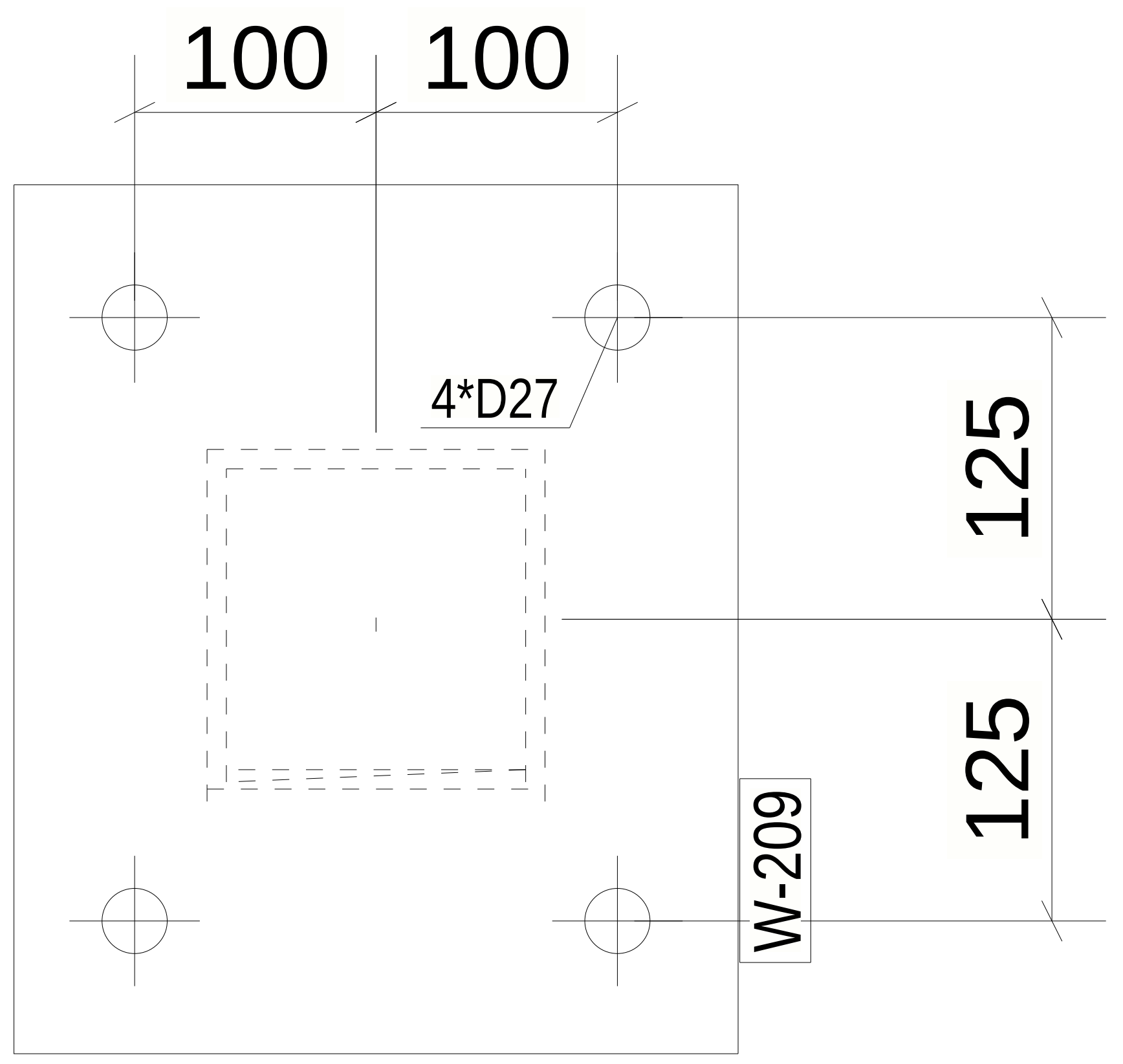
Mark	Profile	GRADE	No.	Length	Area	Weight
W-43	SHS140*8	S355JR	1	2066	1.16	68.27
W-209	PL25*300	S355JR	1	360	0.25	21.19
W-211	PL15*136	S355JR	2	265	0.07	3.27
W-212	PL25*430	S355JR	1	430	0.41	36.29
				Total	1.95	132.29





A - A
A





B - B
B

2 *REQUIRED AS DRAWN MARKED* C-3

6 October Monorail
Engineering Unit
Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority

Hill International
Consultant

Main Contractor

Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS

DRAWING TITLE

6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
WALK WAY : C-3

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
93M	0473	ACC	60L00	DWG	50023	C

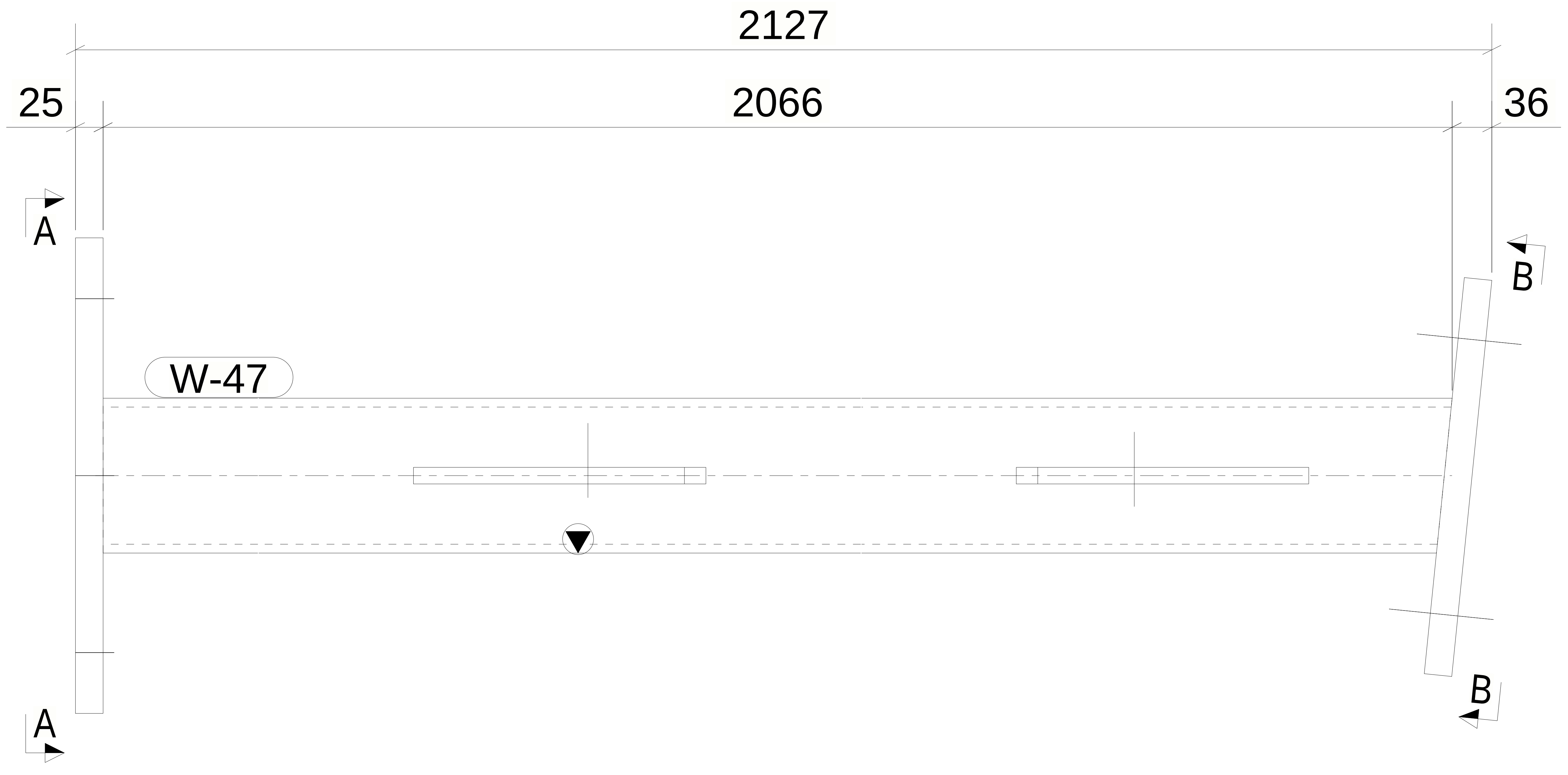
Tekla Structures

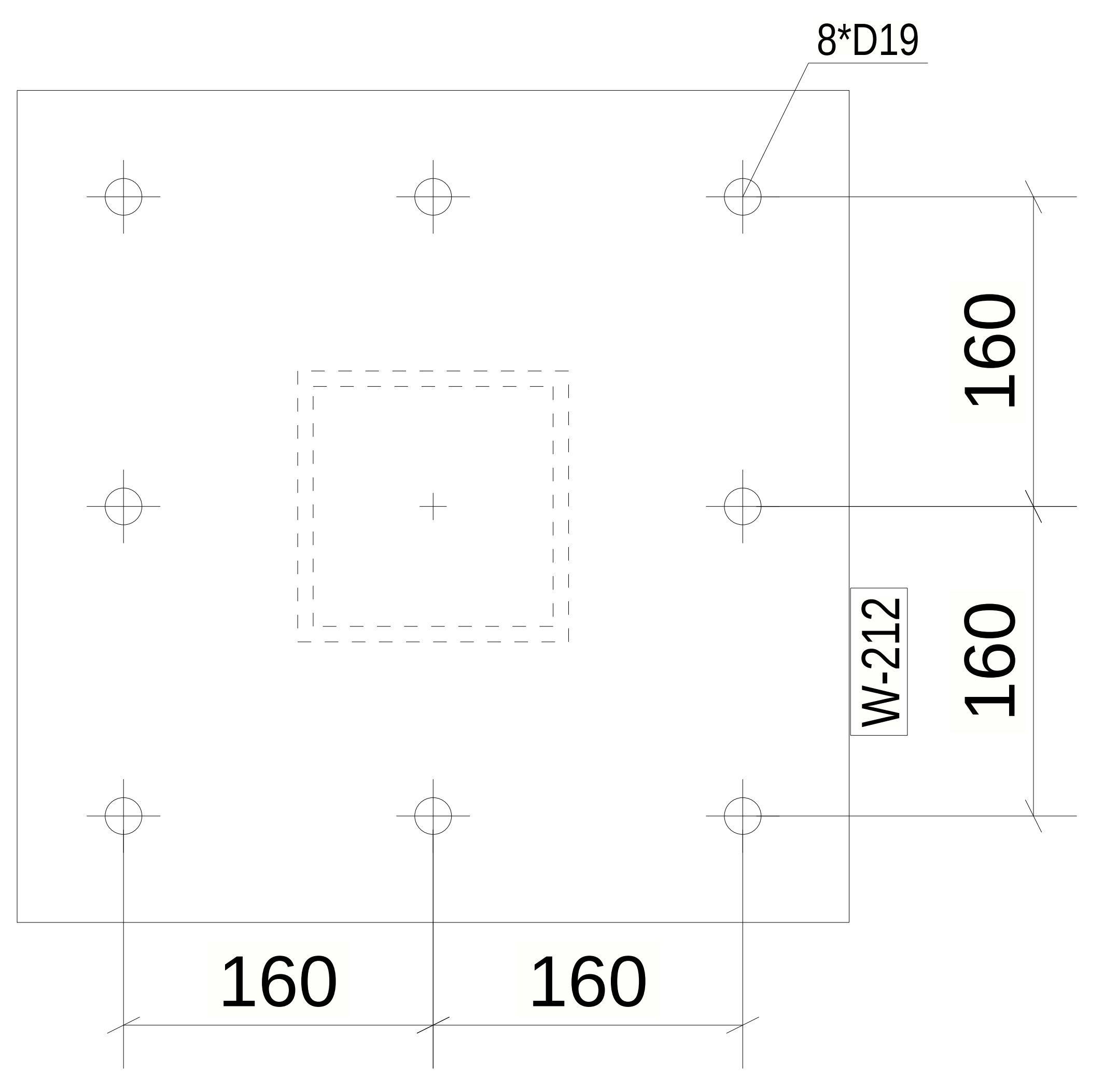
Same comments as
93M-0473-ACC-6OL00-DWG-50021-C.

REVIEWED WITH COMMENT MONORAILS PROJECT

MATERIAL LIST FOR ASSEMBLY MK'DC-4

Mark	Profile	GRADE	No.	Length	Area	Weight
W-47	SHS140*8	S355JR	1	2066	1.16	68.27
W-209	PL25*300	S355JR	1	360	0.25	21.19
W-211	PL15*136	S355JR	2	265	0.07	3.27
W-212	PL25*430	S355JR	1	430	0.41	36.29
				Total	1.95	132.29





A - A
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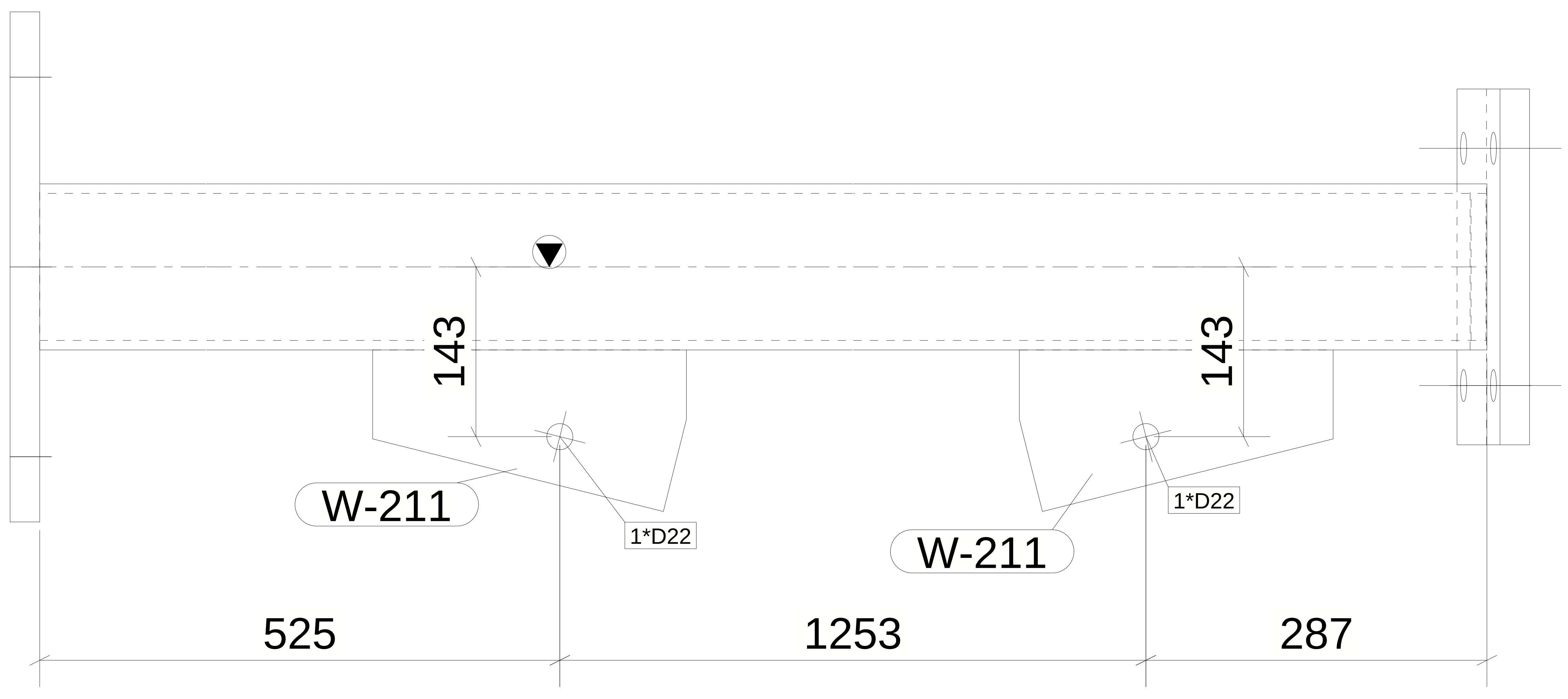

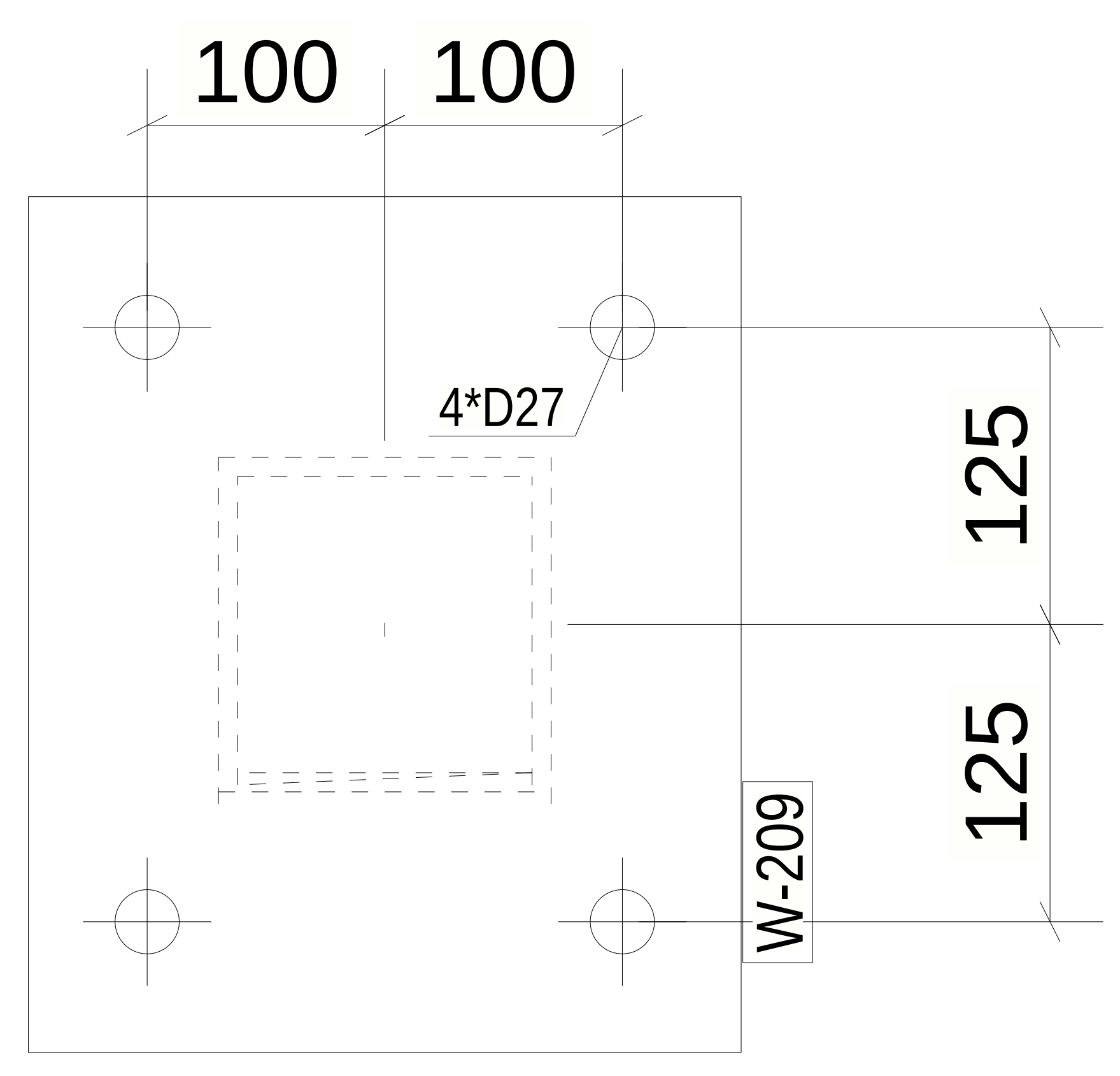

B - B
B

2 *REQUIRED AS DRAWN MARKED* C-4

6 October Monorail
Engineering Unit
Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority | Hill International Consultant | Main Contractor | Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS

DRAWING TITLE
6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
WALK WAY : C-4

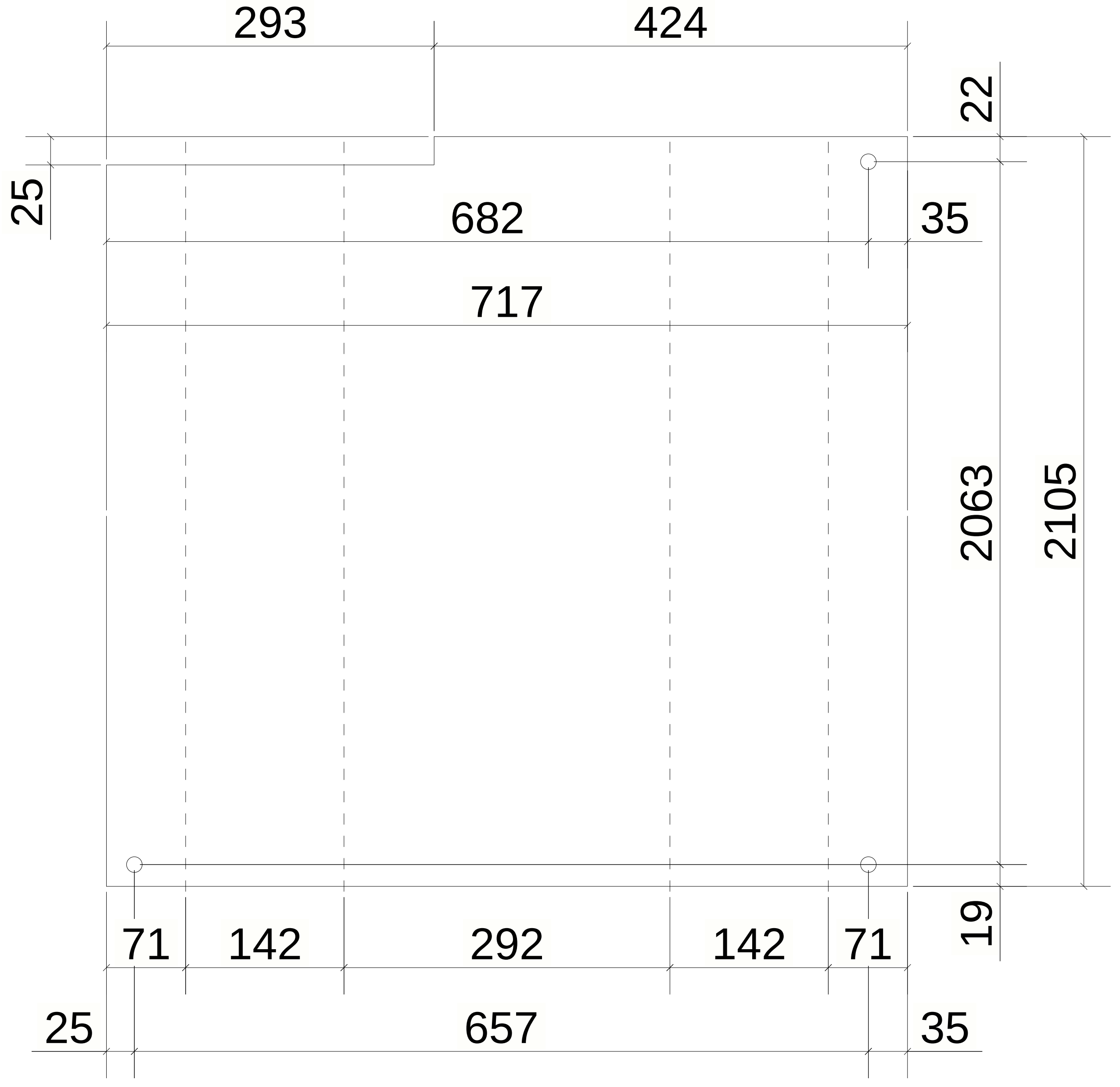
Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
93M	0473	ACC	6OL00	DWG	50024	C

Tekla Structures

REVIEWED WITH
COMMENT
MONORAILS PROJECT

-For all planks assemblies slots and holes size are missing

MATERIAL LIST FOR ASSEMBLY MK'DCHQ-1						
Mark	Profile	GRADE	No.	Length	Area	Weight
W-64	CHQ5*2104.0	S355JR	1	717	3.03	58.85
				Total	3.03	58.85



UNFOLDED VIEW

1 *REQUIRED AS DRAWN MARKED* CHQ-1

6 October Monorail
Engineering Unit
Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority
Consultant
Main Contractor
Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS
C	07.05.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
B	22.04.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
A	22.02.2023	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI

DRAWING TITLE

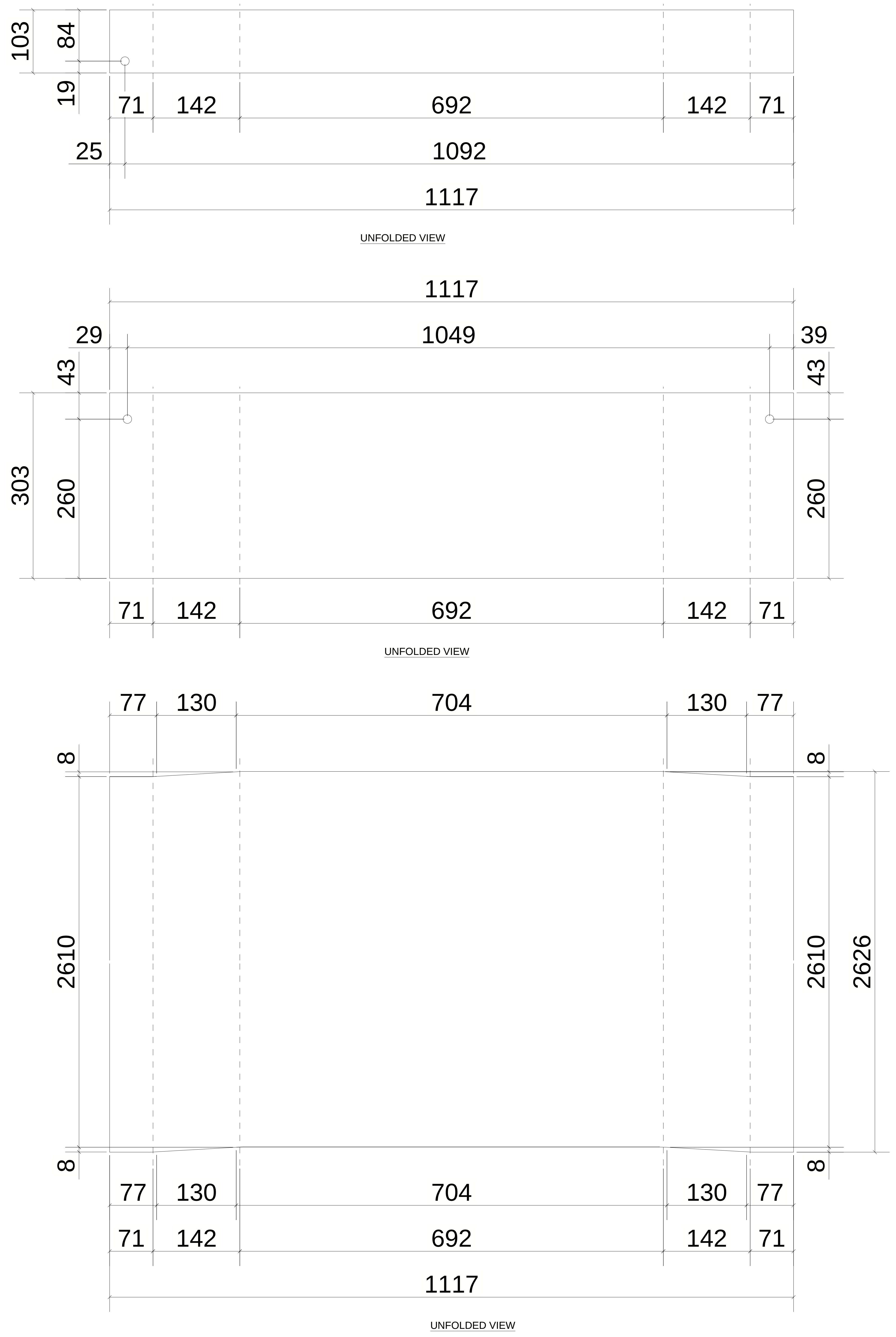
6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
WALK WAY : CHQ-1

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
93M	0473	ACC	60L00	DWG	50025	C

Tekla Structures

REVIEWED WITH
COMMENT
MONORAILS PROJECT

-For all planks assemblies slots and holes size are missing


103
84
19
71
142
692
142
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25
1092
1117
UNFOLDED VIEW
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1049
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43
43
303
260
260
71
142
692
142
71
UNFOLDED VIEW
77
130
704
130
77
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2610
2610
2626
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77
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704
130
77
71
142
692
142
71
1117
UNFOLDED VIEW

MATERIAL LIST FOR ASSEMBLY MK'DCHQ-2						
Mark	Profile	GRADE	No.	Length	Area	Weight
W-78	CHQ5*2626.0	S355JR	1	1117	5.88	114.56
W-70	CHQD5*103	S355JR	1	1117	0.24	4.51
W-71	CHQD5*303	S355JR	1	1117	0.69	13.26
				Total	6.82	132.33

1 *REQUIRED AS DRAWN MARKED* CHQ-2

6 October Monorail
Engineering Unit
Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2.WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3.ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS	
1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority

Hill International

Consultant

Main Contractor

Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS
C	07.05.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
B	22.04.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
A	22.02.2023	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI

DRAWING TITLE

6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
WALK WAY : CHQ-2

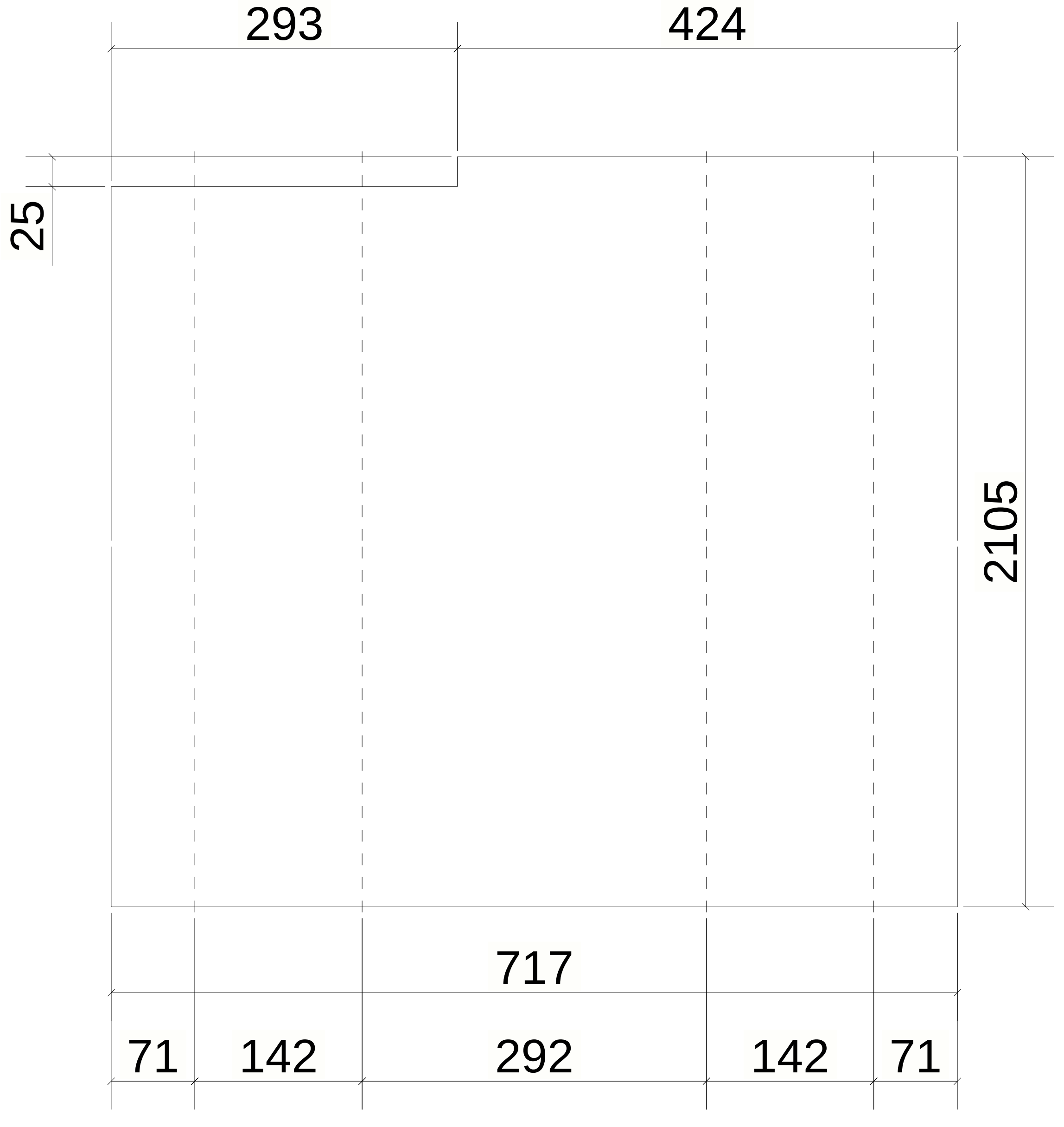
Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
93M	0473	ACC	60L00	DWG	50026	C

Tekla Structures

MATERIAL LIST FOR ASSEMBLY MK'DCHQ-3						
Mark	Profile	GRADE	No.	Length	Area	Weight
W-16	CHQ5*2104.0	S355JR	1	717	3.03	58.85
				Total	3.03	58.85

REVIEWED WITH COMMENT
MONORAILS PROJECT

-For all planks assemblies slots and holes size are missing



UNFOLDED VIEW

1 *REQUIRED AS DRAWN MARKED* CHQ-3

6 October Monorail
Engineering Unit
Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority
Hill International
Consultant
Main Contractor
Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS
C	07.05.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
B	22.04.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
A	22.02.2023	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI

DRAWING TITLE

6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
WALK WAY : CHQ-3

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
93M	0473	ACC	60L00	DWG	50027	C

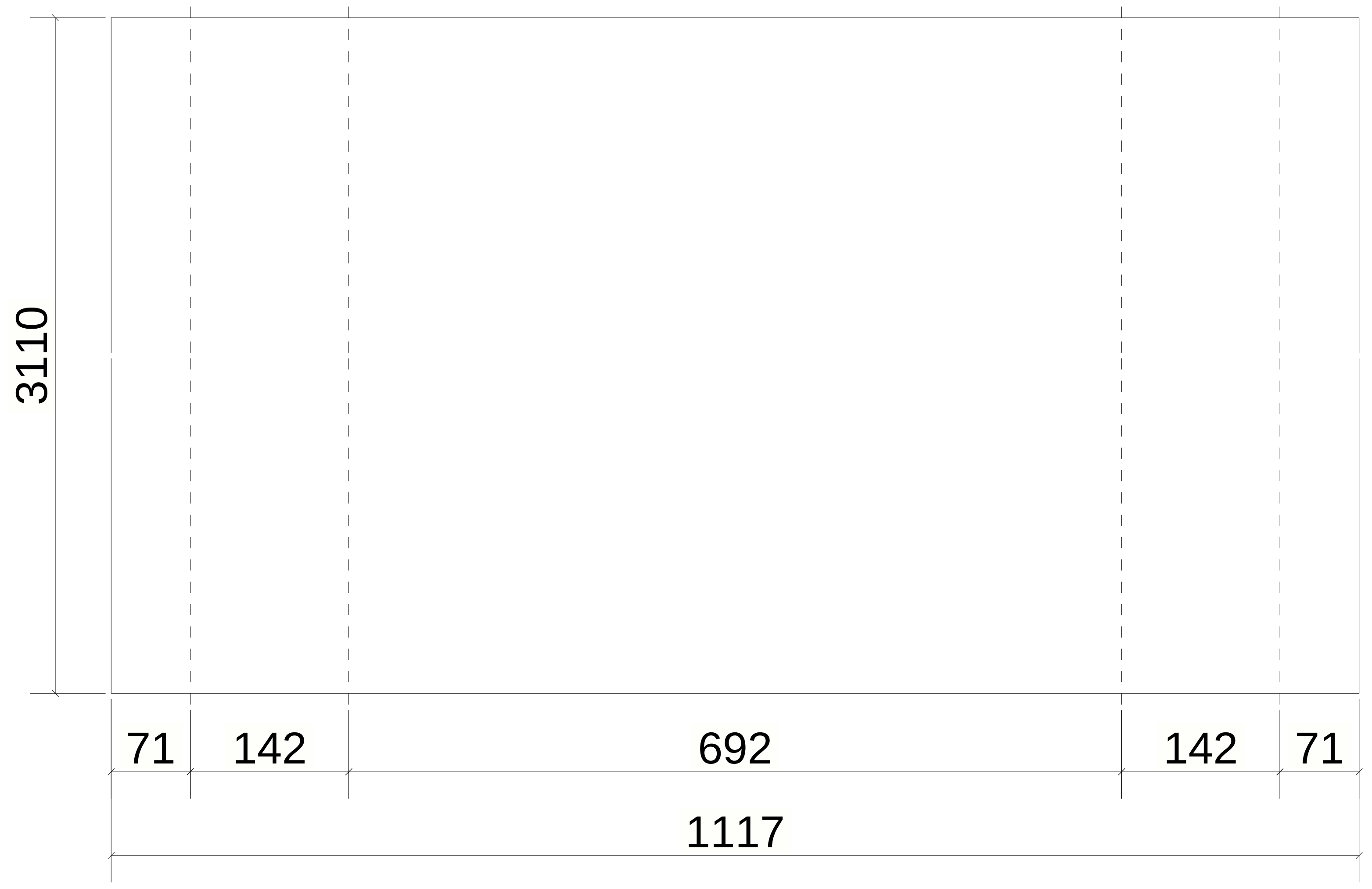
Tekla Structures

REVIEWED WITH
COMMENT
MONORAILS PROJECT

-For all planks assemblies slots and holes size are missing

MATERIAL LIST FOR ASSEMBLY MK'DCHQ-4

Mark	Profile	GRADE	No.	Length	Area	Weight
W-17	CHQ5*3110.0	S355JR	1	1117	6.99	136.08
				Total	6.99	136.08



UNFOLDED VIEW

1 *REQUIRED AS DRAWN MARKED* CHQ-4

6 October Monorail
Engineering Unit
Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2.WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3.ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority
Hill International
Consultant
Main Contractor
Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS
C	07.05.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
B	22.04.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
A	22.02.2023	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI

DRAWING TITLE

6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
WALK WAY : CHQ-4

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
9 3 M	0 4 7 3	A C C	6 0 L 0 0	D W G	5 0 0 2 8	C

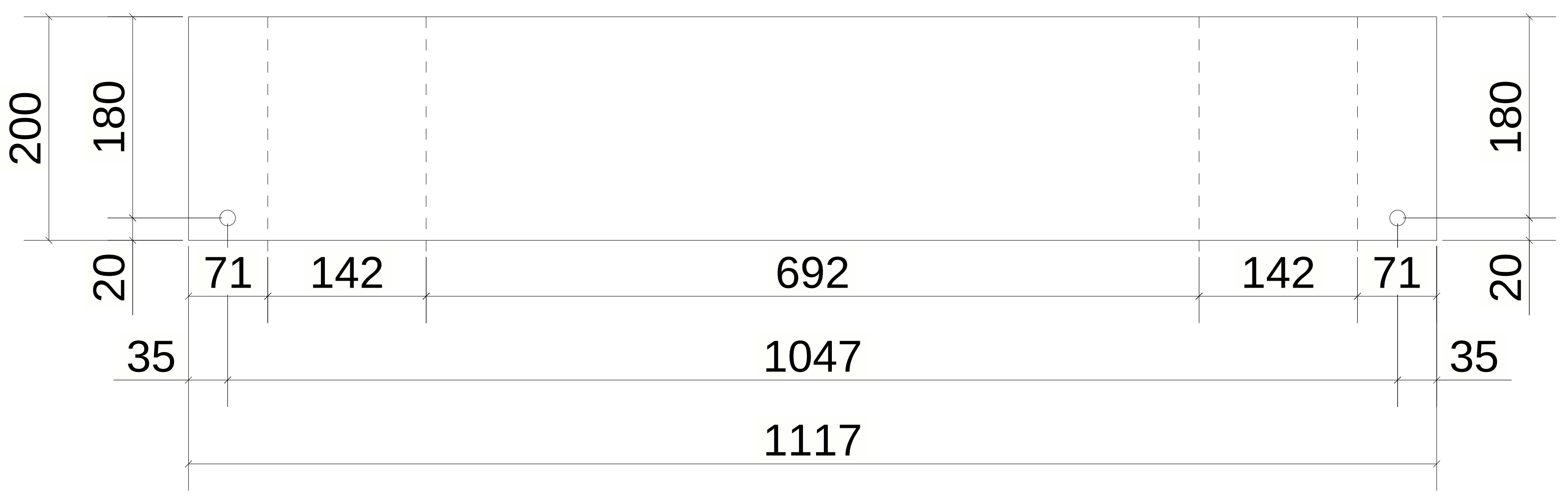
Tekla Structures

REVIEWED WITH COMMENT MONORAILS PROJECT

-For all planks assemblies slots and holes size are missing

MATERIAL LIST FOR ASSEMBLY MK'DCHQ-5

Mark	Profile	GRADE	No.	Length	Area	Weight
W-53	CHQ5*2012.0	S355JR	1	1117	4.49	87.39
W-48	CHQD5*200	S355JR	1	1117	0.46	8.75
W-49	CHQD5*216.33	S355JR	1	1117	0.50	9.47
				Total	5.45	105.61



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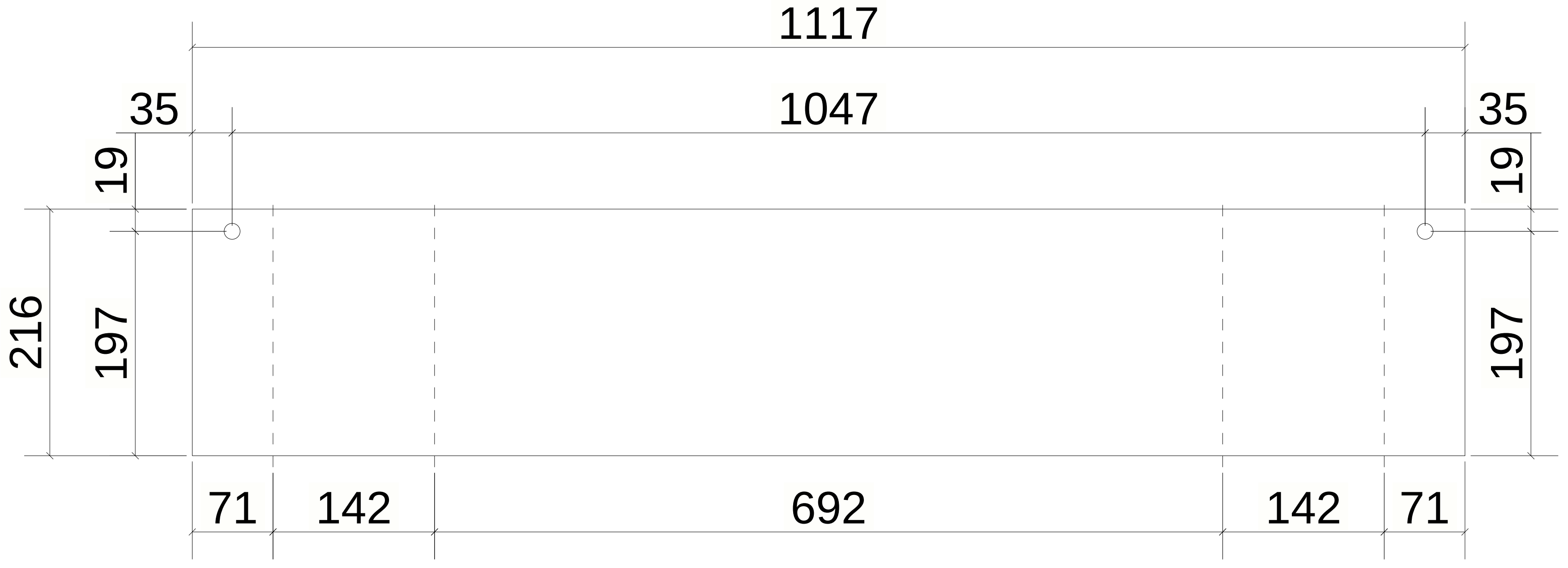
1117

UNFOLDED VIEW



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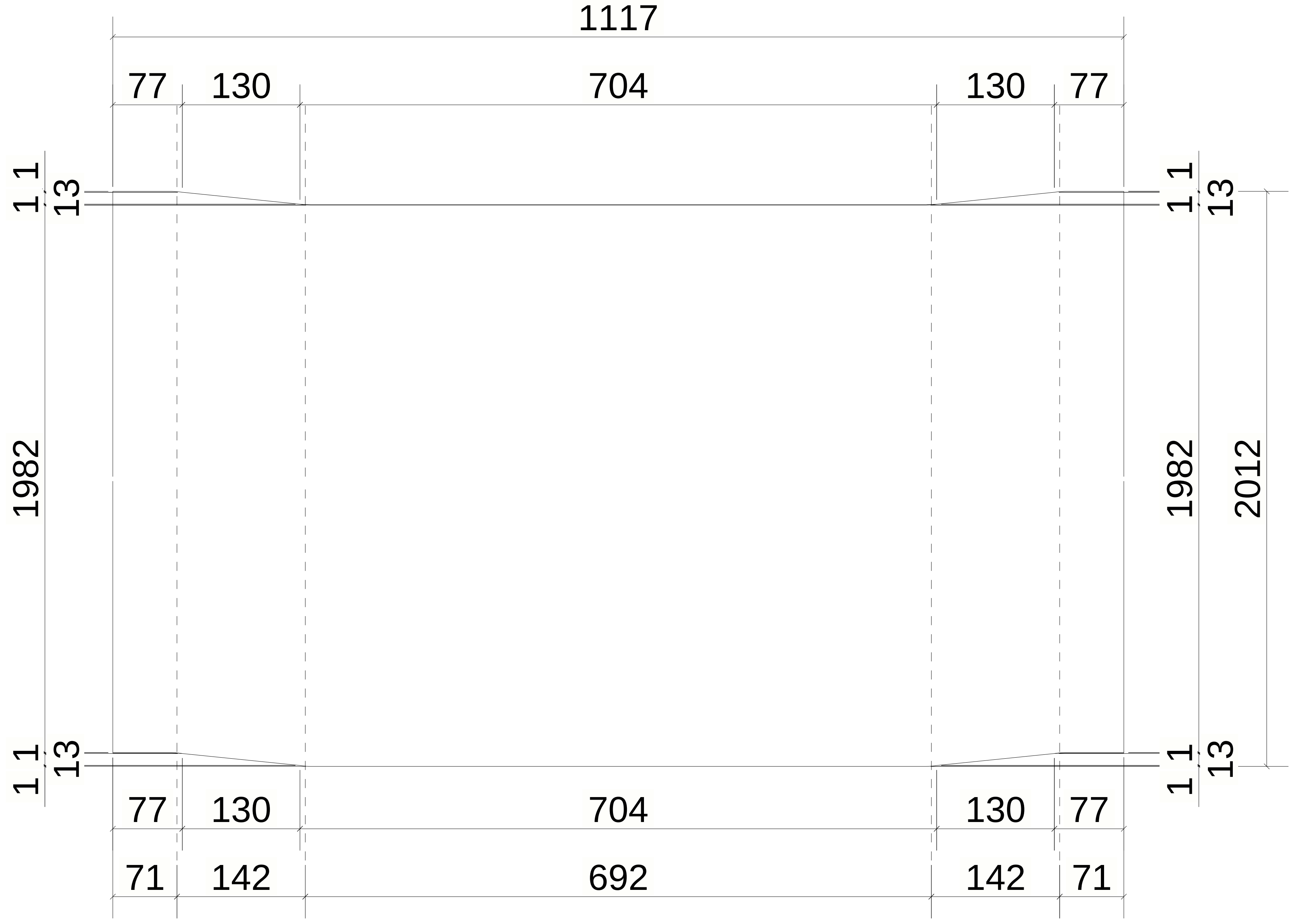
UNFOLDED VIEW



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UNFOLDED VIEW

1 *REQUIRED AS DRAWN MARKED* CHQ-5

6 October Monorail Engineering Unit Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority

Hill International

Consultant

Main Contractor

Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS
C	07.05.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
B	22.04.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
A	22.02.2023	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI

DRAWING TITLE

6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
WALK WAY : CHQ-5

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
93	M047	3AC	C60L00	DWG	50029	C

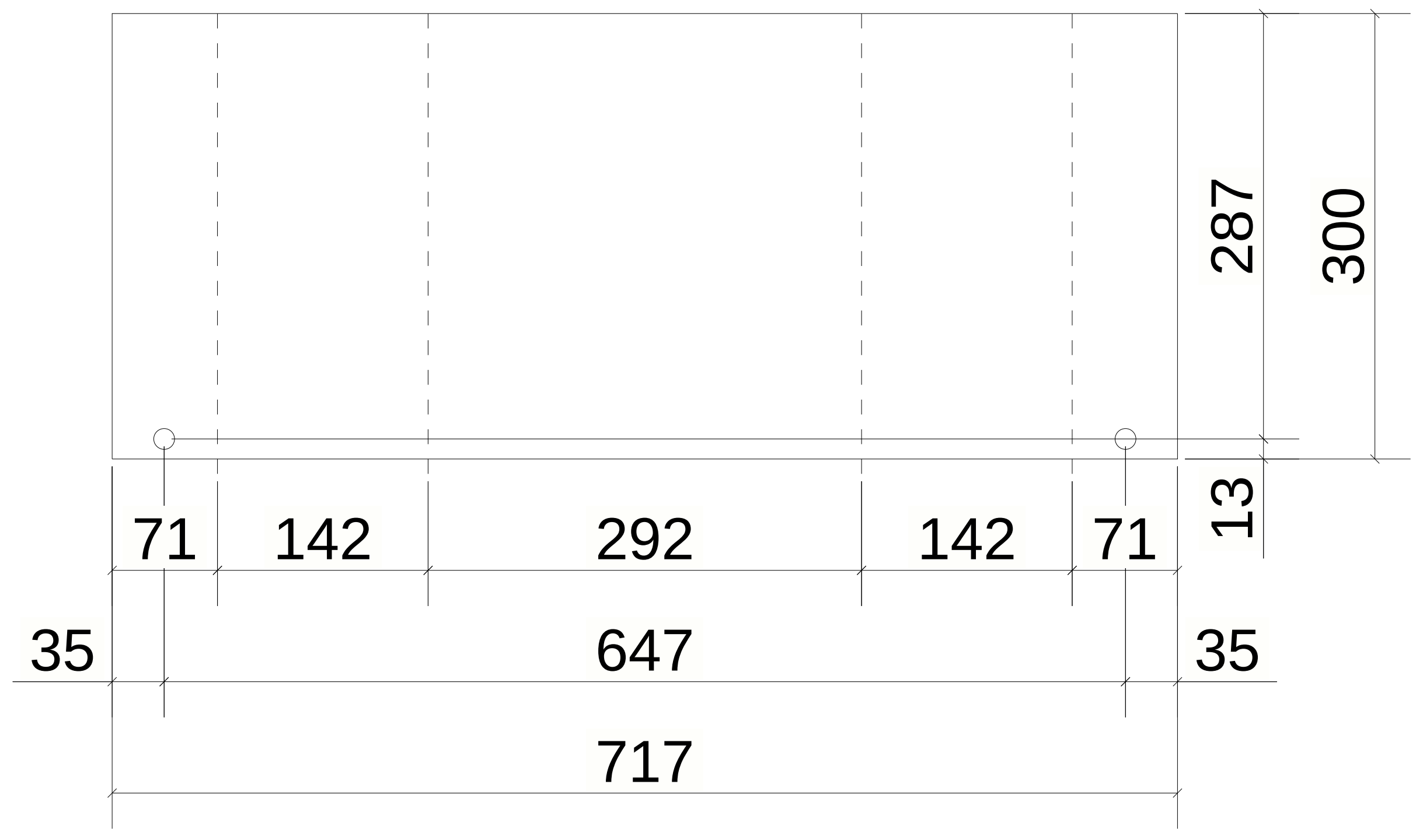
Tekla Structures

REVIEWED WITH
COMMENT
MONORAILS PROJECT

-For all planks assemblies slots and holes size are missing

MATERIAL LIST FOR ASSEMBLY MK'DCHQ-6

Mark	Profile	GRADE	No.	Length	Area	Weight
W-54	CHQ5*1804.0	S355JR	1	717	2.61	50.53
W-51	CHQD5*300	S355JR	1	717	0.44	8.42
W-52	CHQD5*303	S355JR	1	717	0.44	8.50
				Total	3.49	67.45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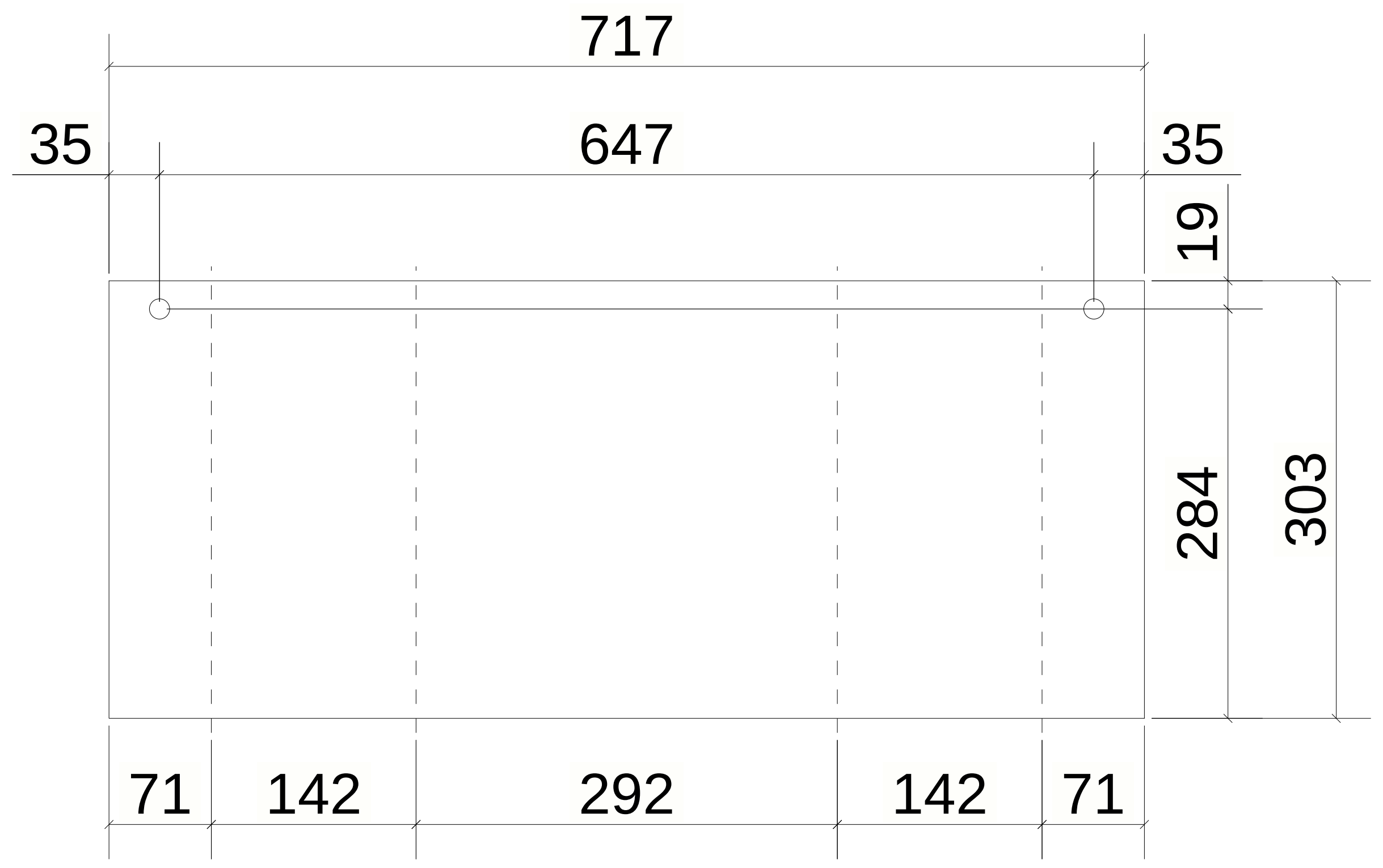
UNFOLDED VIEW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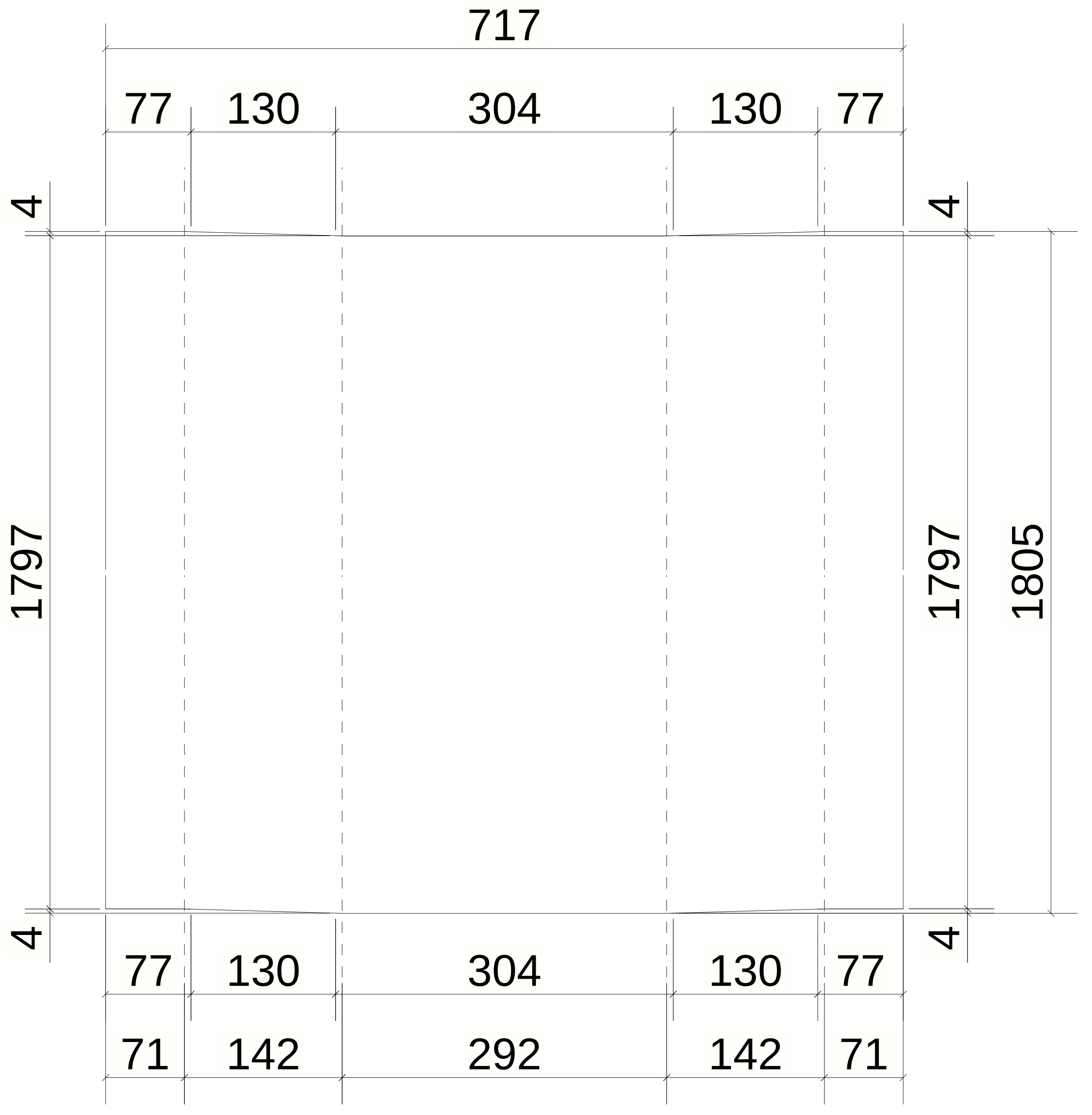
UNFOLDED VIEW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UNFOLDED VIEW

1 *REQUIRED AS DRAWN MARKED* CHQ-6

6 October Monorail
Engineering Unit
Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority

Hill International
Consultant

Main Contractor

Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS
C	07.05.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
B	22.04.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
A	22.02.2023	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI

DRAWING TITLE

6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
WALK WAY : CHQ-6

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
9 3	M 0 4	7 3	A C C 6 0 L 0 0	D W G	5 0 0 3 0	C

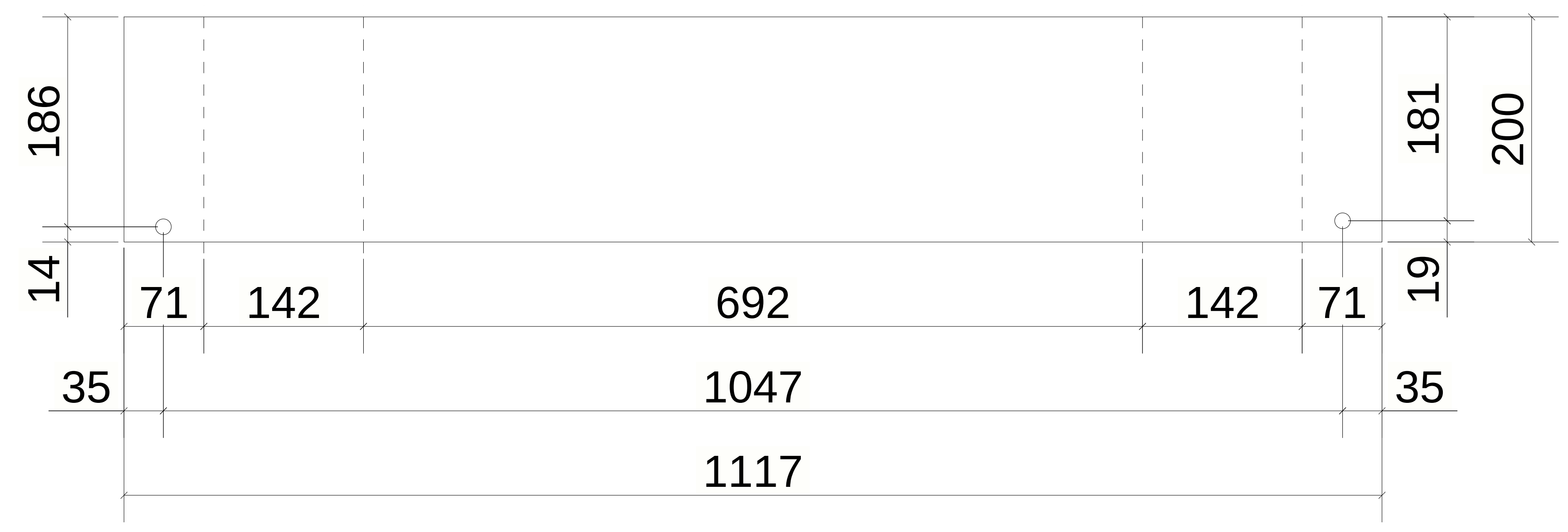
Tekla Structures

REVIEWED WITH COMMENT
MONORAILS PROJECT

-For all planks assemblies slots and holes size are missing

MATERIAL LIST FOR ASSEMBLY MK'DCHQ-7

Mark	Profile	GRADE	No.	Length	Area	Weight
W-53	CHQ5*2012.0	S355JR	1	1117	4.49	87.39
W-62	CHQD5*200	S355JR	1	1117	0.46	8.75
W-63	CHQD5*216.33	S355JR	1	1117	0.50	9.47
				Total	5.45	105.61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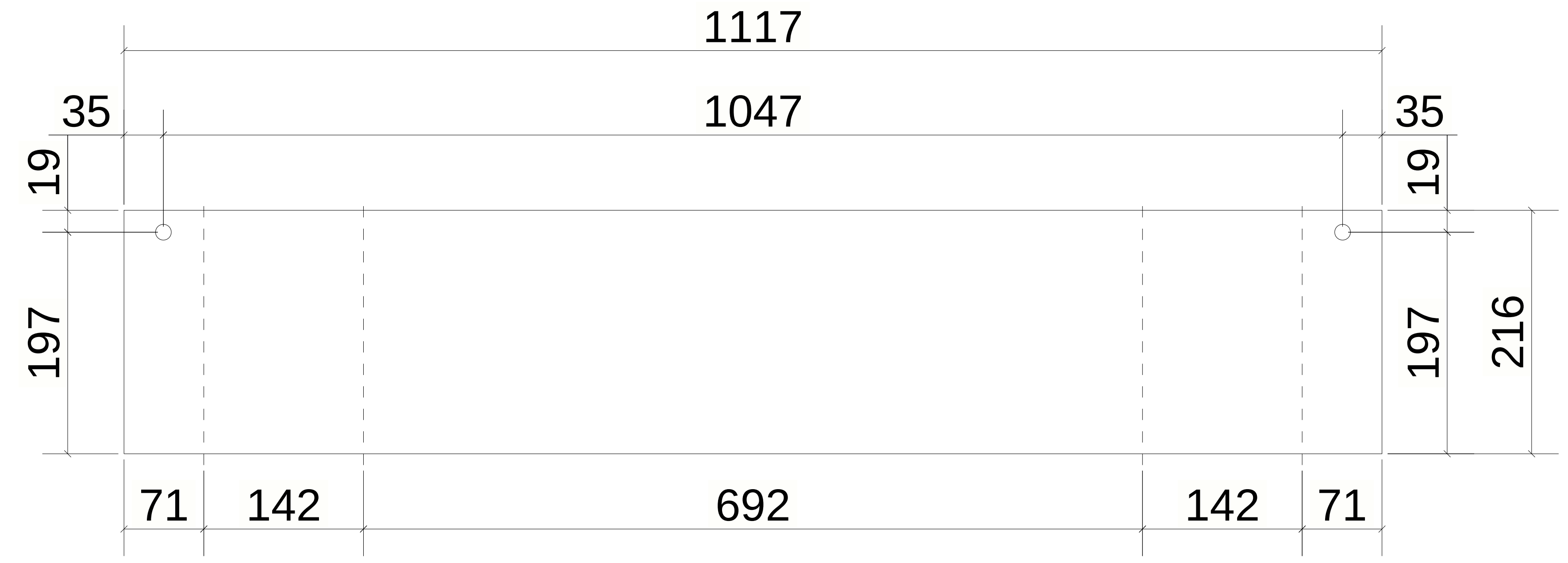
UNFOLDED VIEW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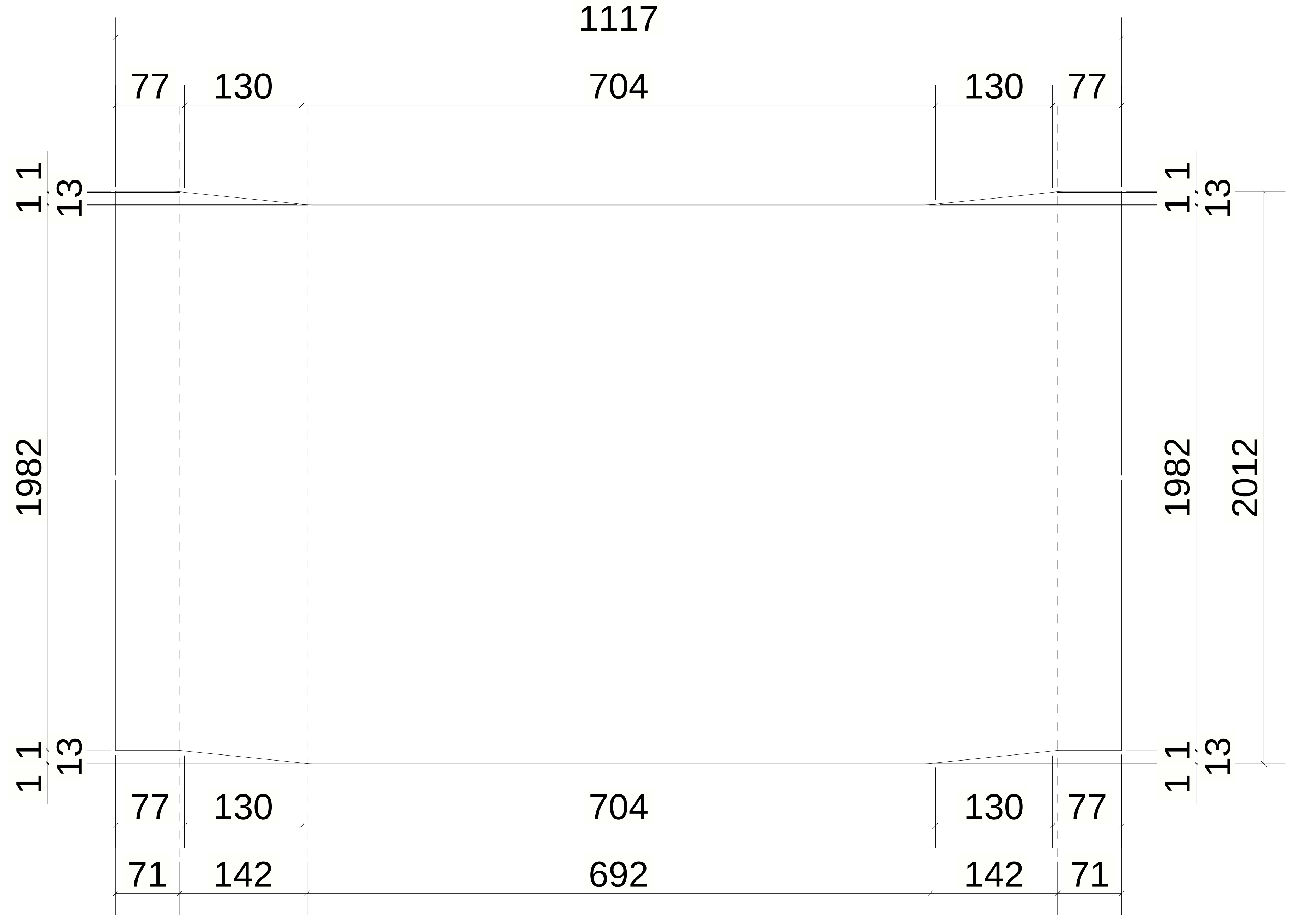
UNFOLDED VIEW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UNFOLDED VIEW

1 *REQUIRED AS DRAWN MARKED* CHQ-7

6 October Monorail
Engineering Unit
Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority

Hill International
Consultant

Main Contractor

Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS
C	07.05.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
B	22.04.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
A	22.02.2023	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI

DRAWING TITLE

6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
WALK WAY : CHQ-7

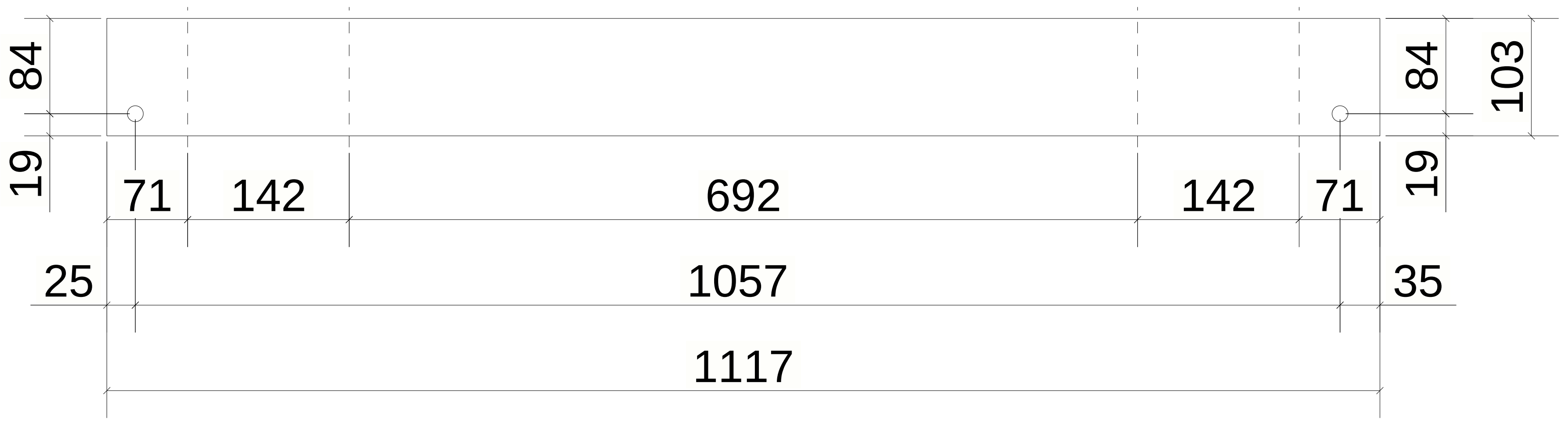
Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
93M	0473	ACC	60L00	DWG	50031	C

Tekla Structures

REVIEWED WITH COMMENT
MONORAILS PROJECT

-For all planks assemblies slots and holes size are missing

MATERIAL LIST FOR ASSEMBLY MK'DCHQ-8						
Mark	Profile	GRADE	No.	Length	Area	Weight
W-78	CHQ5*2626.0	S355JR	1	1117	5.88	114.56
W-93	CHQD5*103	S355JR	1	1117	0.24	4.51
W-94	CHQD5*303	S355JR	1	1117	0.69	13.26
				Total	6.82	132.33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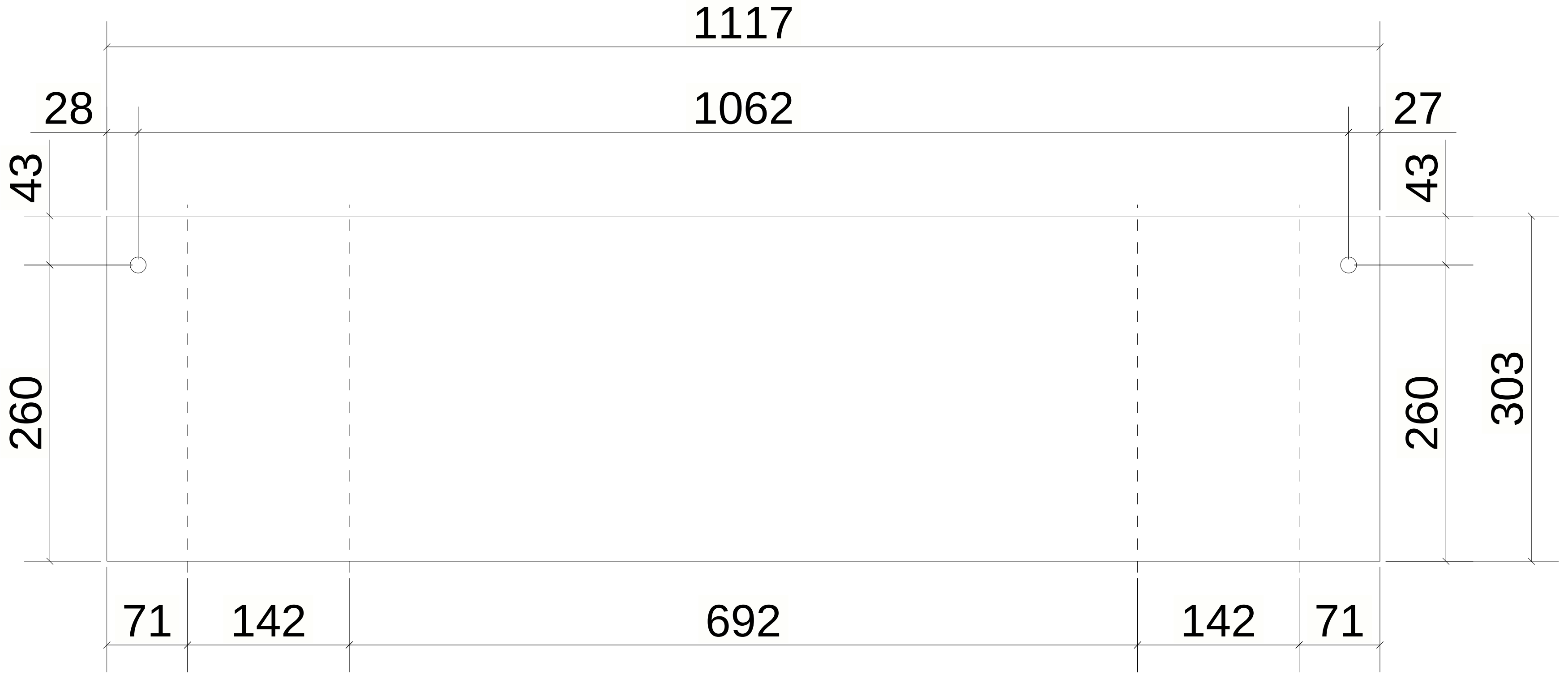
UNFOLDED VIEW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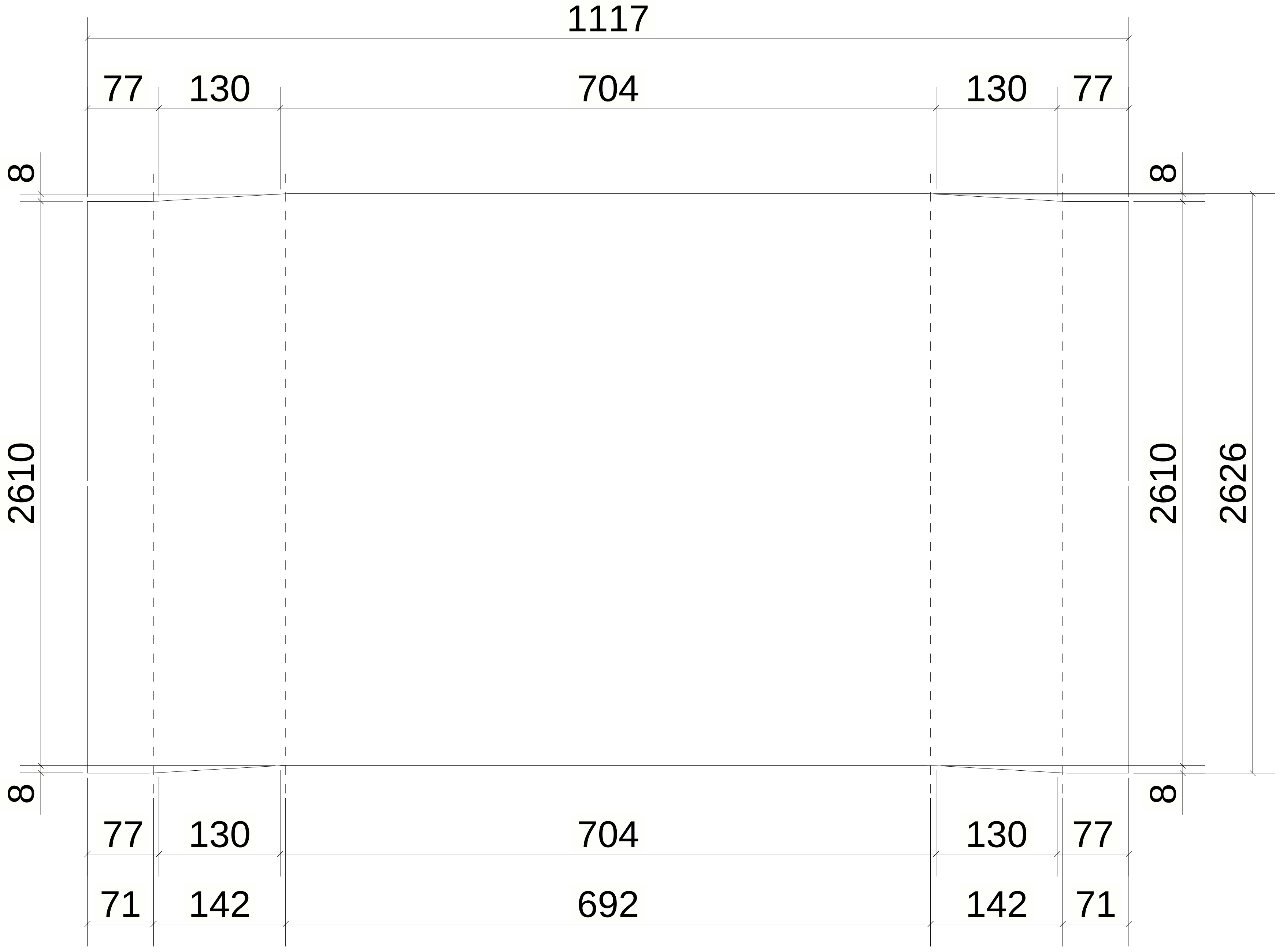
UNFOLDED VIEW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UNFOLDED VIEW

1 *REQUIRED AS DRAWN MARKED* CHQ-8

6 October Monorail
Engineering Unit
Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority
Hill International
Consultant
Main Contractor
Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS
C	07.05.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
B	22.04.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
A	22.02.2023	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI

DRAWING TITLE

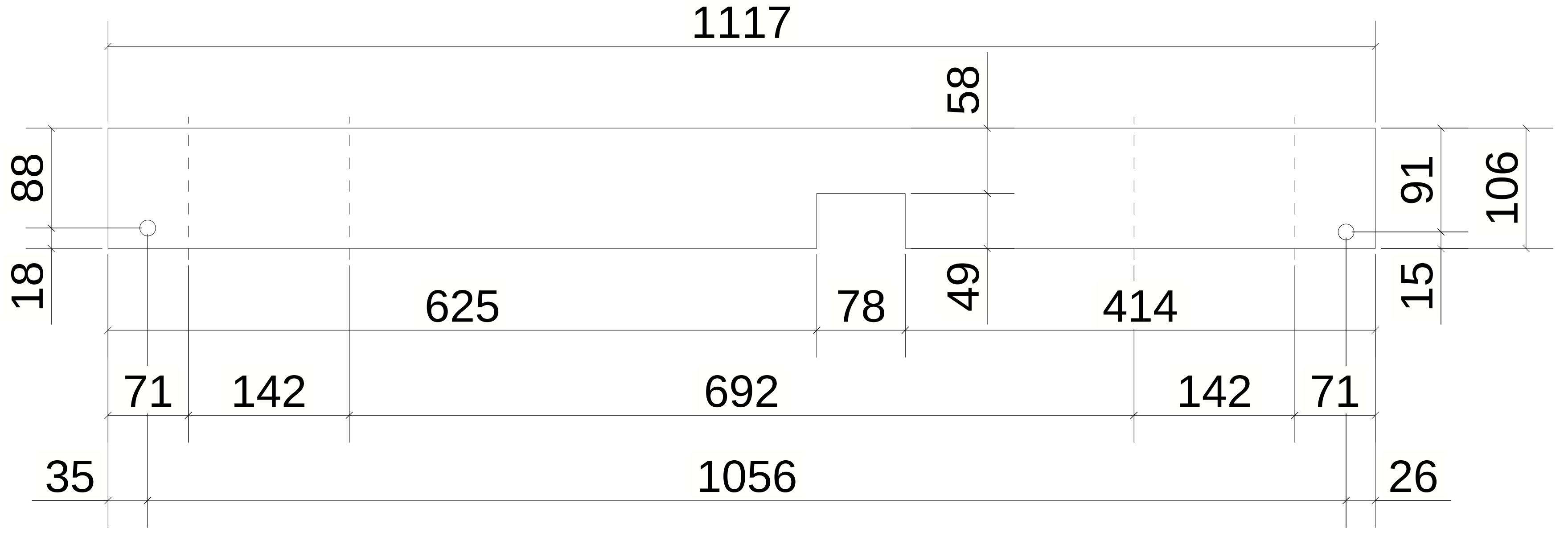
6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
WALK WAY : CHQ-8

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
93	M04	73	ACC60	L00	DWG50032	C

Tekla Structures

REVIEWED WITH
COMMENT
MONORAILS PROJECT

-For all planks assemblies slots and holes size are missing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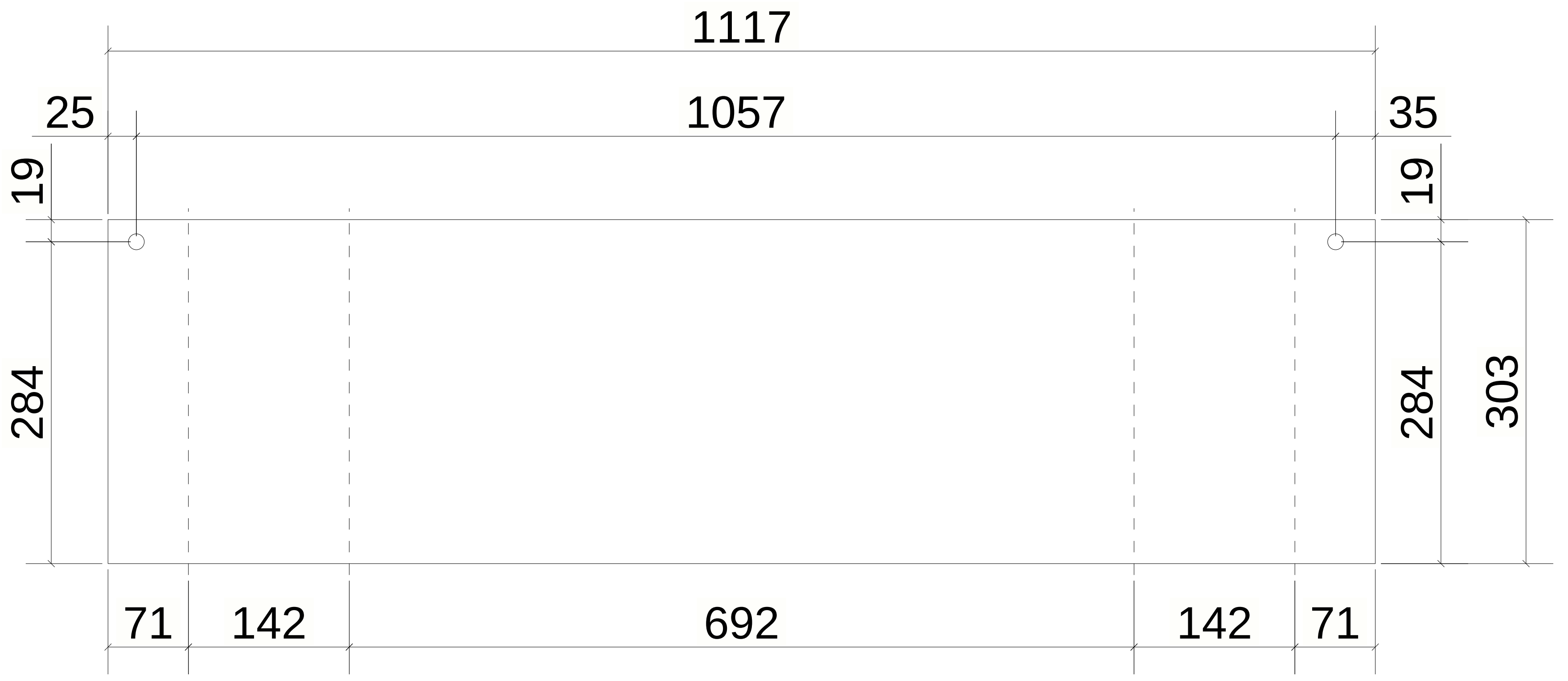
UNFOLDED VIEW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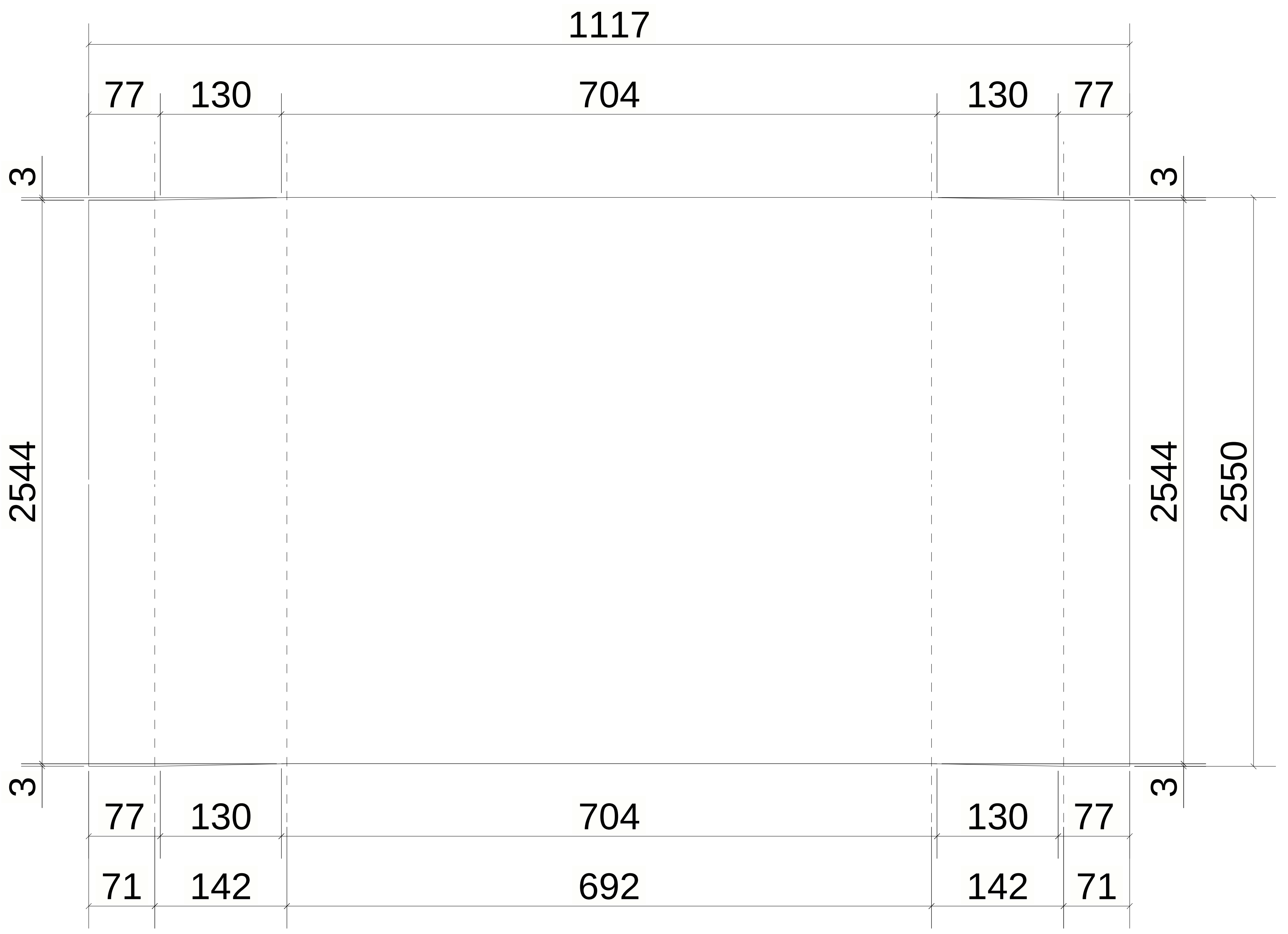
UNFOLDED VIEW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UNFOLDED VIEW

MATERIAL LIST FOR ASSEMBLY MK'DCHQ-9

Mark	Profile	GRADE	No.	Length	Area	Weight
W-79	CHQ5*2550.0	S355JR	1	1117	5.72	111.47
W-95	CHQD5*106	S355JR	1	1117	0.24	4.49
W-96	CHQD5*303	S355JR	1	1117	0.69	13.26
				Total	6.66	129.22

6 October Monorail
Engineering Unit
Valid For Construction

1 *REQUIRED AS DRAWN MARKED* CHQ-9

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
3	
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority

Hill International
Consultant

Main Contractor

Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS
C	07.05.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
B	22.04.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
A	22.02.2023	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI

DRAWING TITLE

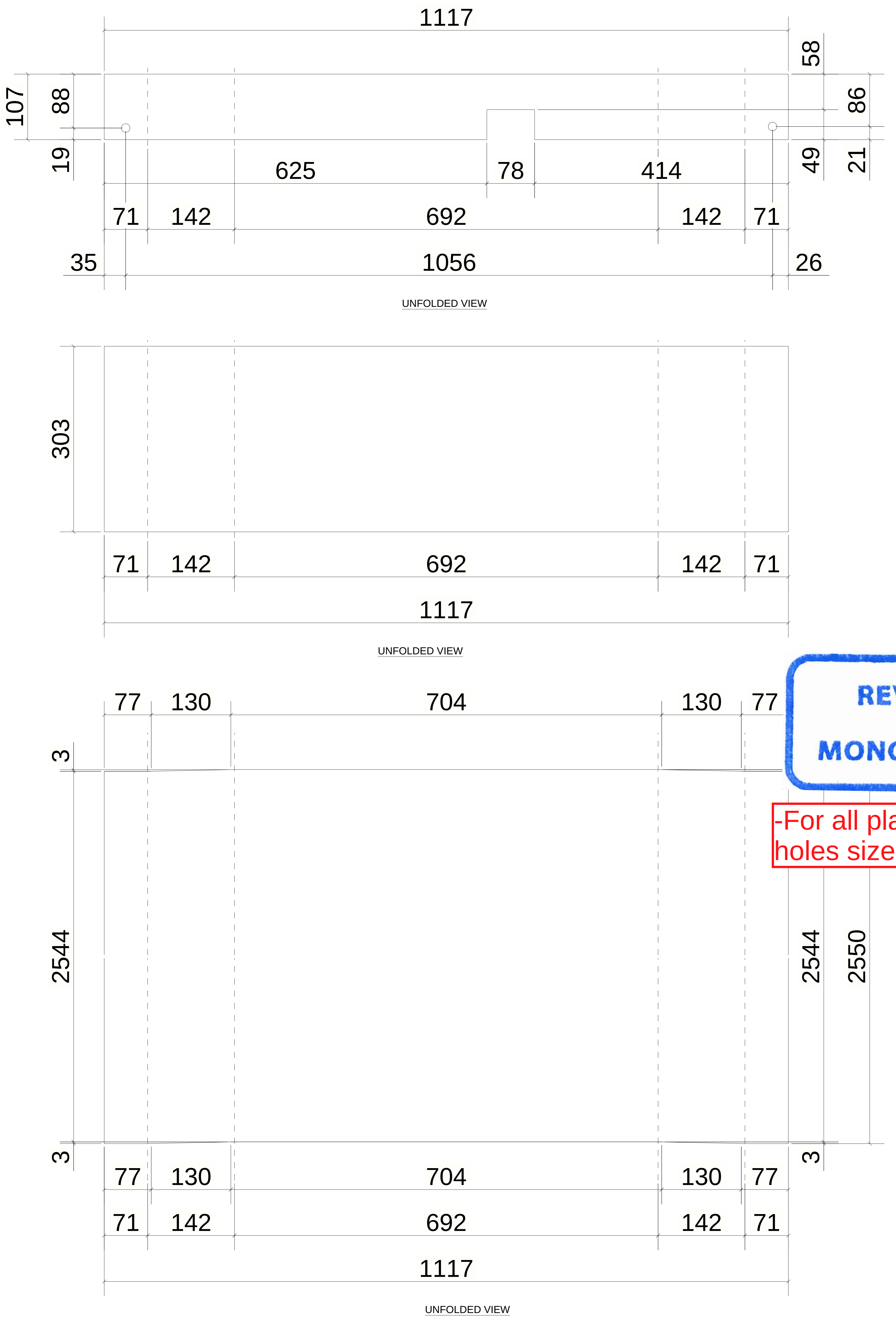
6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
WALK WAY : CHQ-9

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
93M	0473	ACC	60L00	DWG	50033	C

Tekla Structures

REVIEWED WITH COMMENT
MONORAILS PROJECT

-For all planks assemblies slots and holes size are missing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UNFOLDED VIEW
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UNFOLDED VIEW

REVIEWED WITH COMMENT
MONORAILS PROJECT

-For all planks assemblies slots and holes size are missing

MATERIAL LIST FOR ASSEMBLY MK'DCHQ-10						
Mark	Profile	GRADE	No.	Length	Area	Weight
W-79	CHQ5*2550.0	S355JR	1	1117	5.72	111.47
W-72	CHQD5*107	S355JR	1	1117	0.24	4.53
W-73	CHQD5*303	S355JR	1	1117	0.69	13.26
				Total	6.66	129.26

1 *REQUIRED AS DRAWN MARKED* CHQ-10

6 October Monorail
Engineering Unit
Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority
Hill International
Consultant
Main Contractor
Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS
C	07.05.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
B	22.04.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
A	22.02.2023	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI

DRAWING TITLE
6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
WALK WAY : CHQ-10

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
93M	0473	ACC	60L00	DWG	50034	C

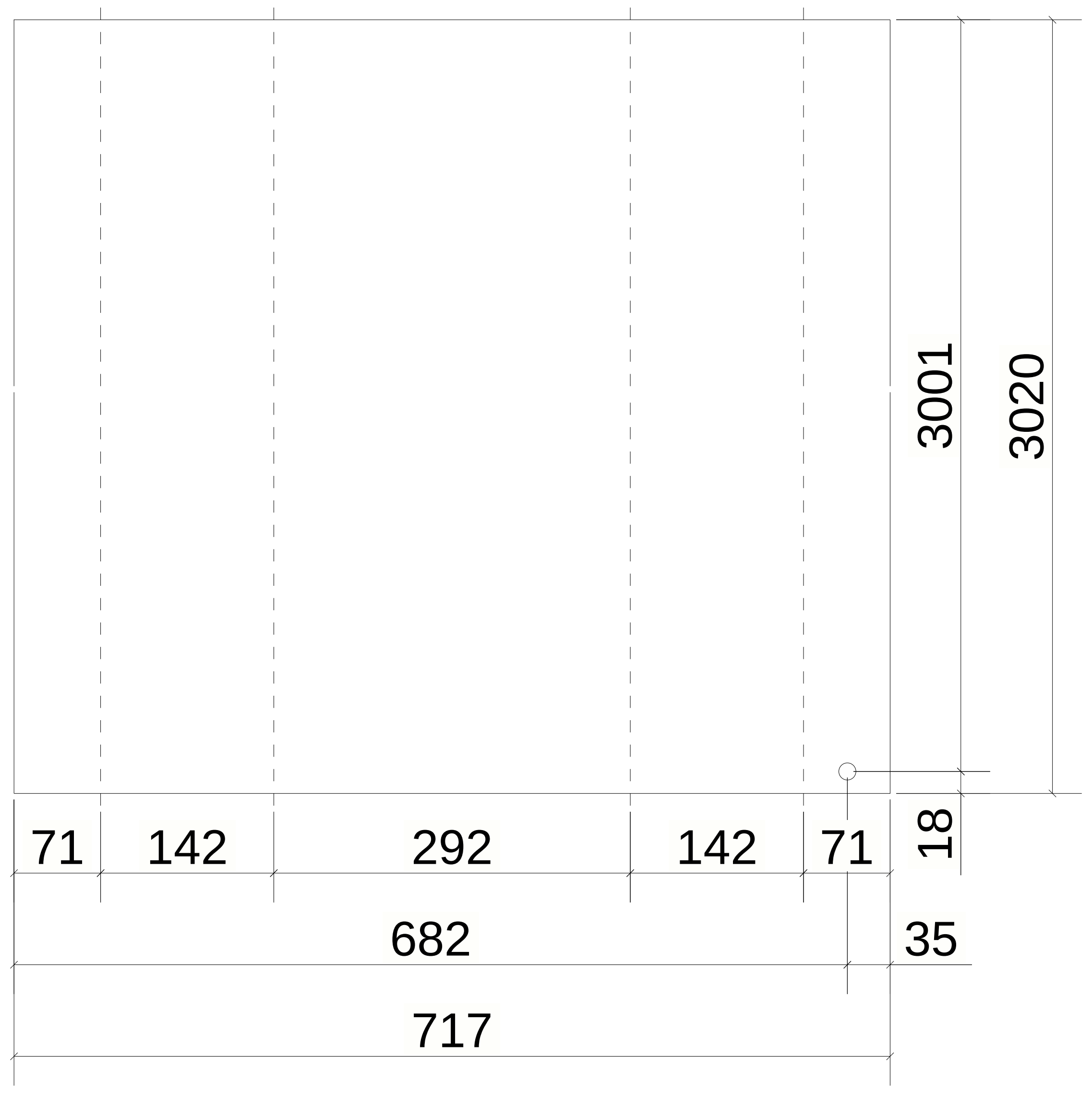
Tekla Structures

MATERIAL LIST FOR ASSEMBLY MK'DCHQ-11

Mark	Profile	GRADE	No.	Length	Area	Weight
W-81	CHQ5*3020.0	S355JR	1	717	4.36	84.74
				Total	4.36	84.74

REVIEWED WITH COMMENT
MONORAILS PROJECT

-For all planks assemblies slots and holes size are missing



UNFOLDED VIEW

6 October Monorail
Engineering Unit
Valid For Construction

1 *REQUIRED AS DRAWN MARKED* CHQ-11

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2.WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3.ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority
Hill International
Consultant
Main Contractor
Structural Designer

KEY PLAN:

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C	07.05.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
B	22.04.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
A	22.02.2023	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI

DRAWING TITLE
6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
WALK WAY : CHQ-11

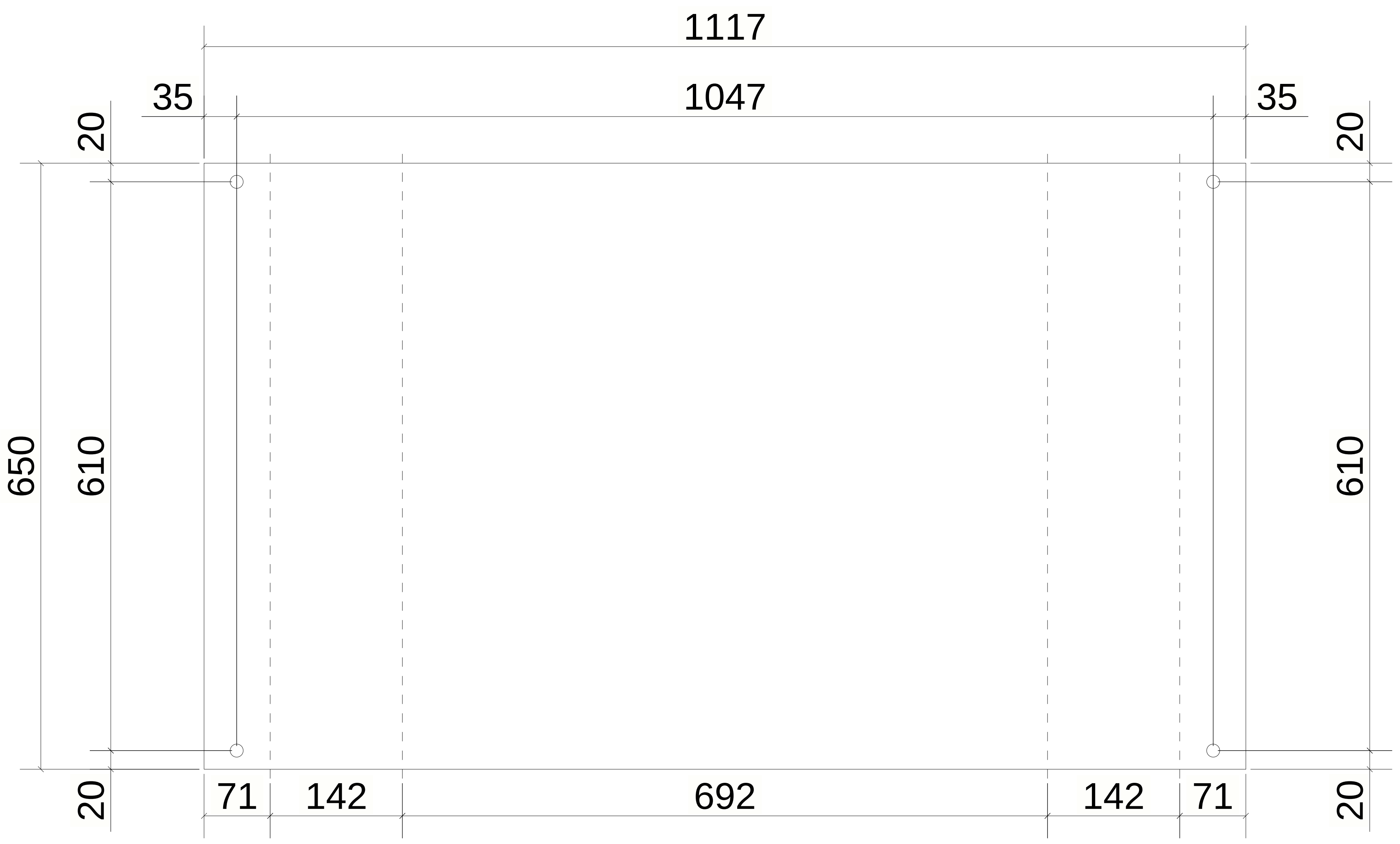
Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
9 3 M	0 4 7 3	A C C	6 0 L 0 0	D W G	5 0 0 3 5	C

Tekla Structures

REVIEWED WITH COMMENT
MONORAILS PROJECT

-For all planks assemblies slots and holes size are missing

MATERIAL LIST FOR ASSEMBLY MK'DCHQ-12						
Mark	Profile	GRADE	No.	Length	Area	Weight
W-83	CHQ5*650.0	S355JR	1	1117	1.47	28.45
				Total	1.47	28.45



UNFOLDED VIEW

1 *REQUIRED AS DRAWN MARKED* CHQ-12

6 October Monorail
Engineering Unit
Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority
Hill International
Consultant
Main Contractor
Structural Designer

KEY PLAN:

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C	07.05.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
B	22.04.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
A	22.02.2023	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI

DRAWING TITLE

6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
WALK WAY : CHQ-12

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
9 3 M	0 4 7 3	A C C	6 0 L 0 0	D W G	5 0 0 3 6	C

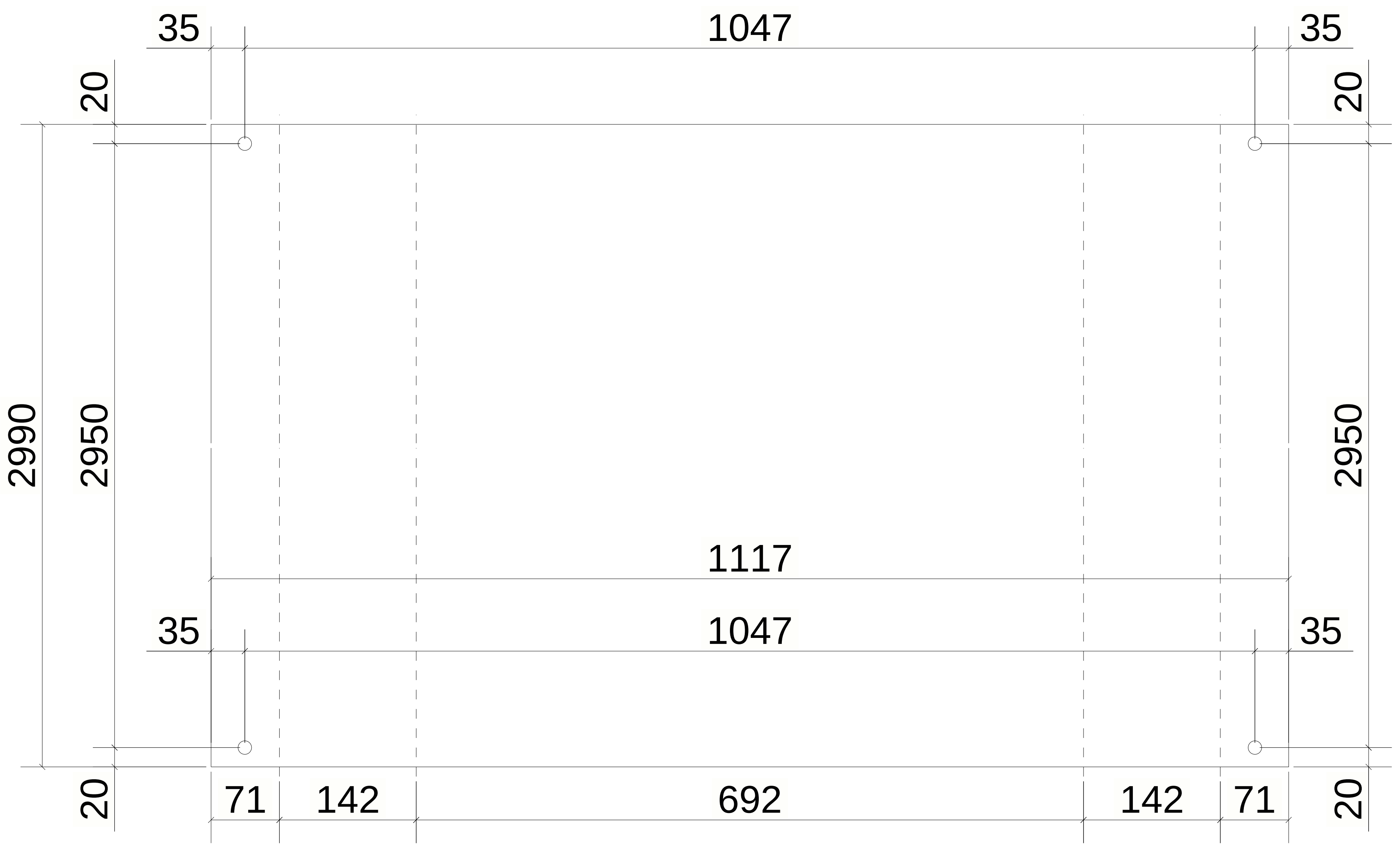
Tekla Structures

REVIEWED WITH COMMENT MONORAILS PROJECT

-For all planks assemblies slots and holes size are missing

MATERIAL LIST FOR ASSEMBLY MK'DCHQ-13

Mark	Profile	GRADE	No.	Length	Area	Weight
W-84	CHQ5*2990.0	S355JR	1	1117	6.72	130.85
				Total	6.72	130.85



UNFOLDED VIEW

5 *REQUIRED AS DRAWN MARKED* CHQ-13

6 October Monorail Engineering Unit Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority

Hill International
Consultant

Main Contractor

Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

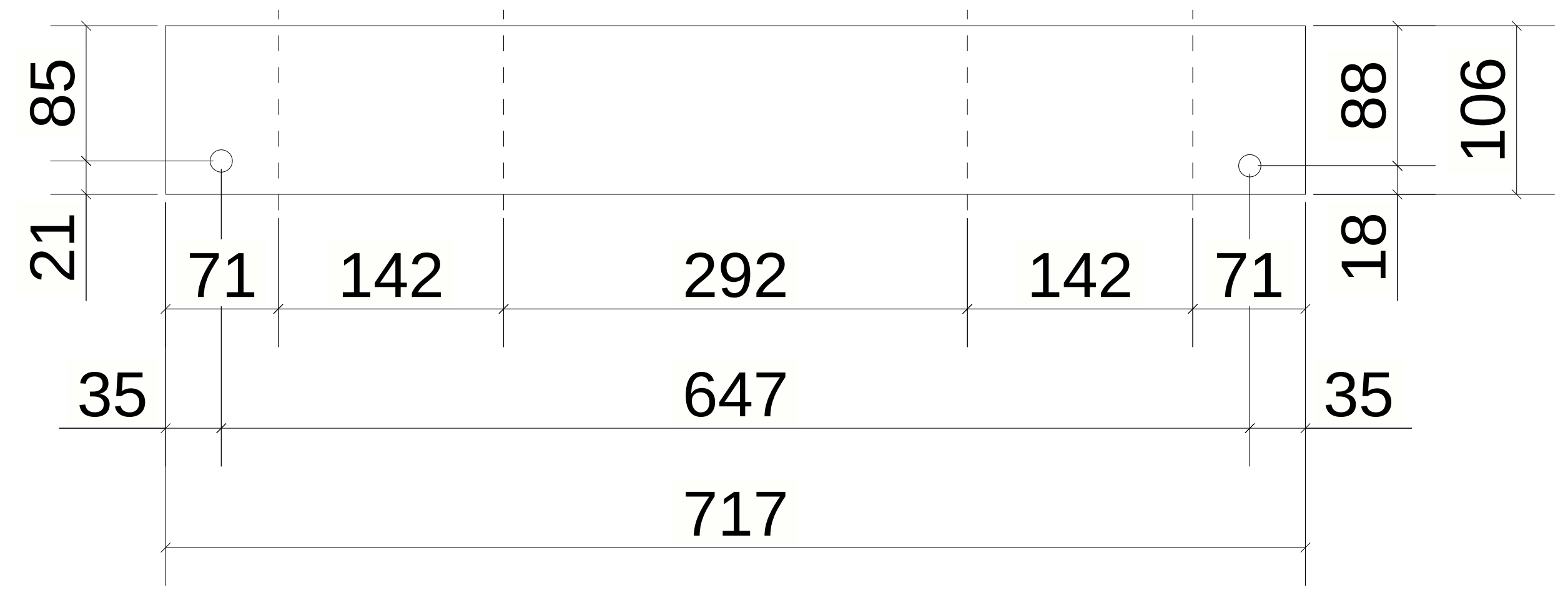
REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS
C	07.05.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
B	22.04.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
A	22.02.2023	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI

DRAWING TITLE

6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
WALK WAY : CHQ-13

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
9 3 M	0 4 7 3	A C C	6 0 L 0 0	D W G	5 0 0 3 7	C

Tekla Structures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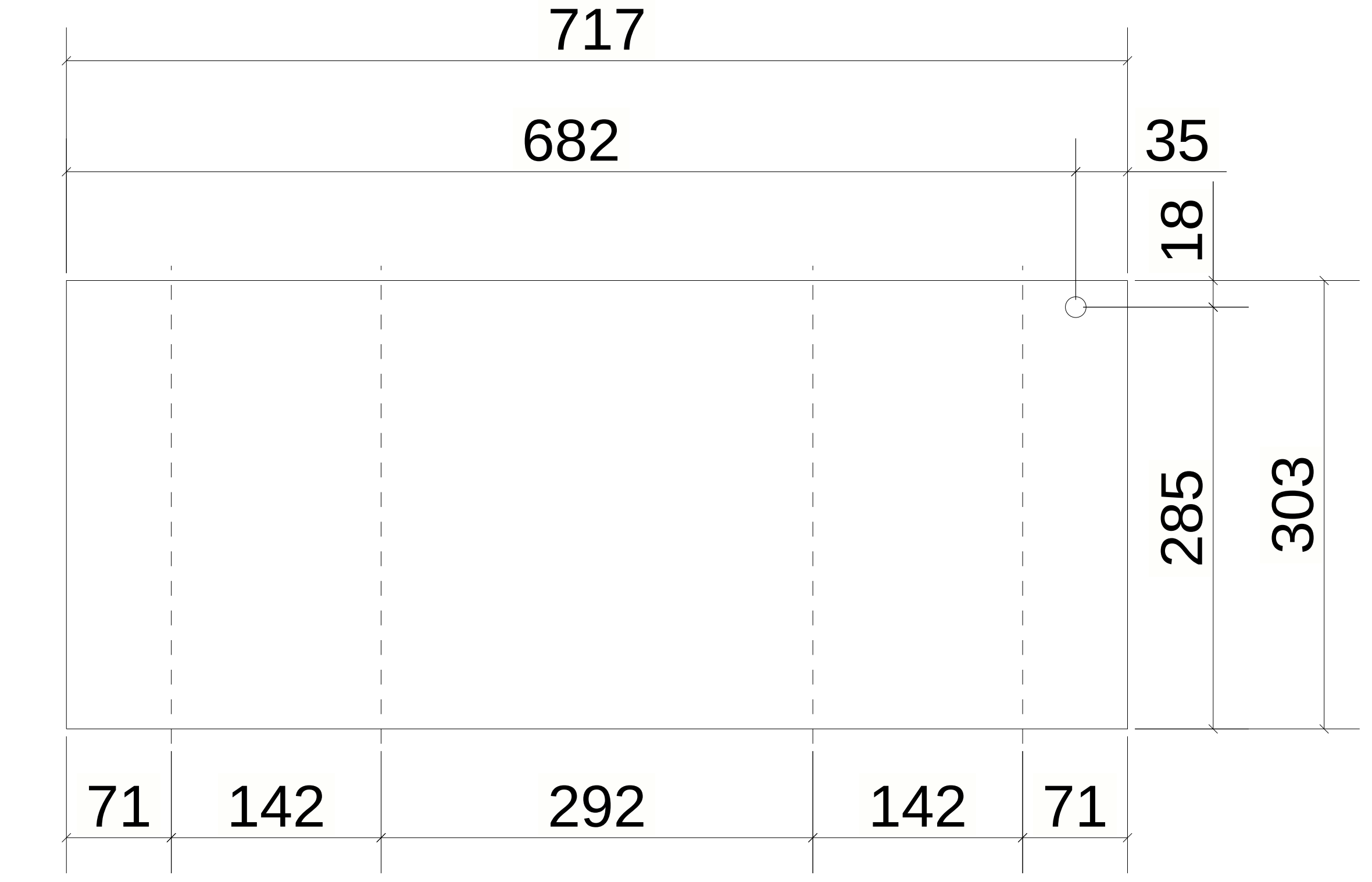
UNFOLDED VIEW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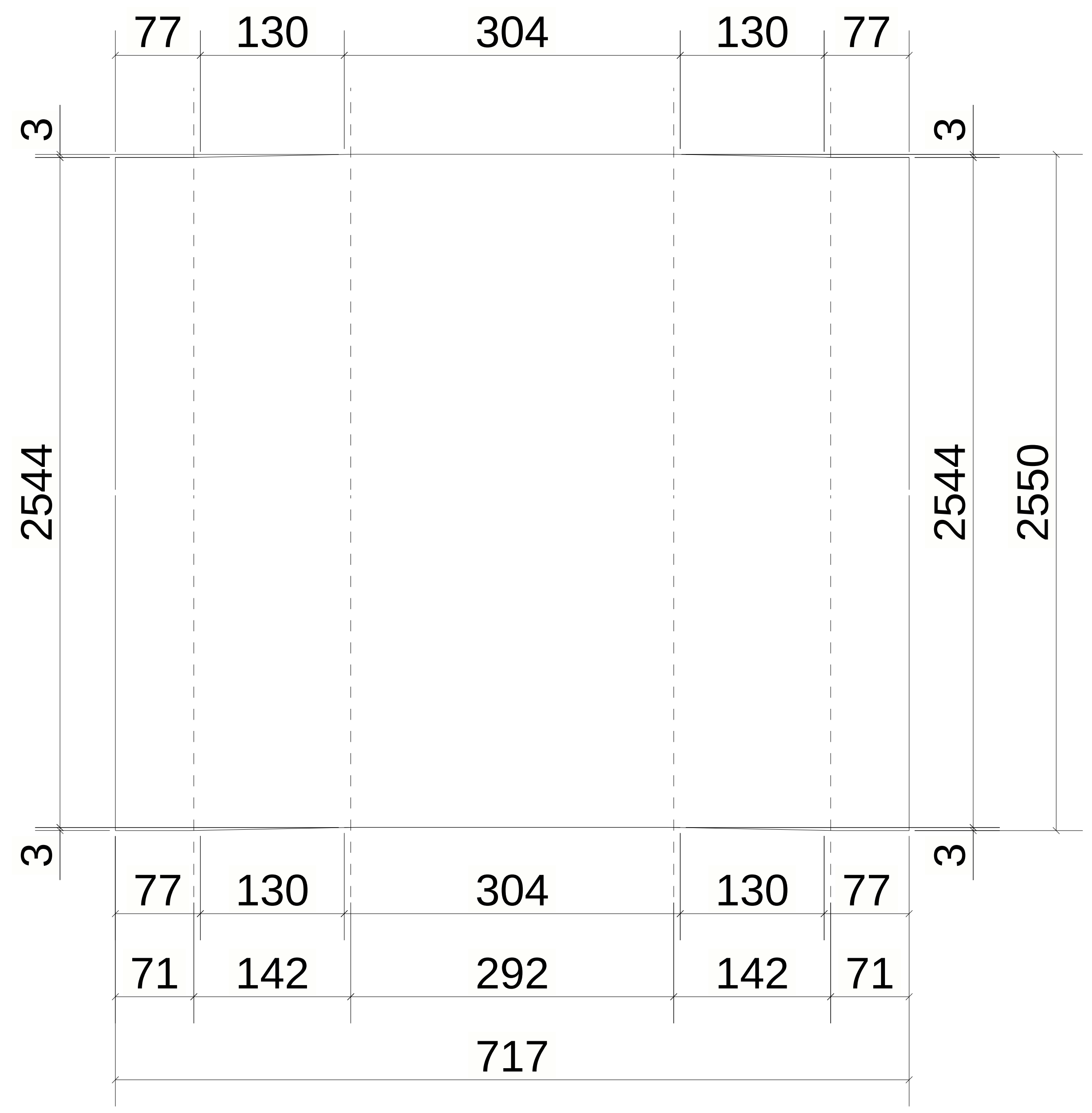
UNFOLDED VIEW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UNFOLDED VIEW

REVIEWED WITH COMMENT
MONORAILS PROJECT

-For all planks assemblies slots and holes size are missing

MATERIAL LIST FOR ASSEMBLY MK'DCHQ-14

Mark	Profile	GRADE	No.	Length	Area	Weight
W-80	CHQ5*2550.0	S355JR	1	717	3.68	71.48
W-75	CHQD5*106	S355JR	1	717	0.16	2.97
W-76	CHQD5*303	S355JR	1	717	0.44	8.50
				Total	4.29	82.96

6 October Monorail
Engineering Unit
Valid For Construction

1 *REQUIRED AS DRAWN MARKED* CHQ-14

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority

Hill International
Consultant

Main Contractor

Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS
C	07.05.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
B	22.04.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
A	22.02.2023	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI

DRAWING TITLE
6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
WALK WAY : CHQ-14

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
9 3 M	0 4 7 3	A C C	6 0 L 0 0	D W G	5 0 0 3 8	C

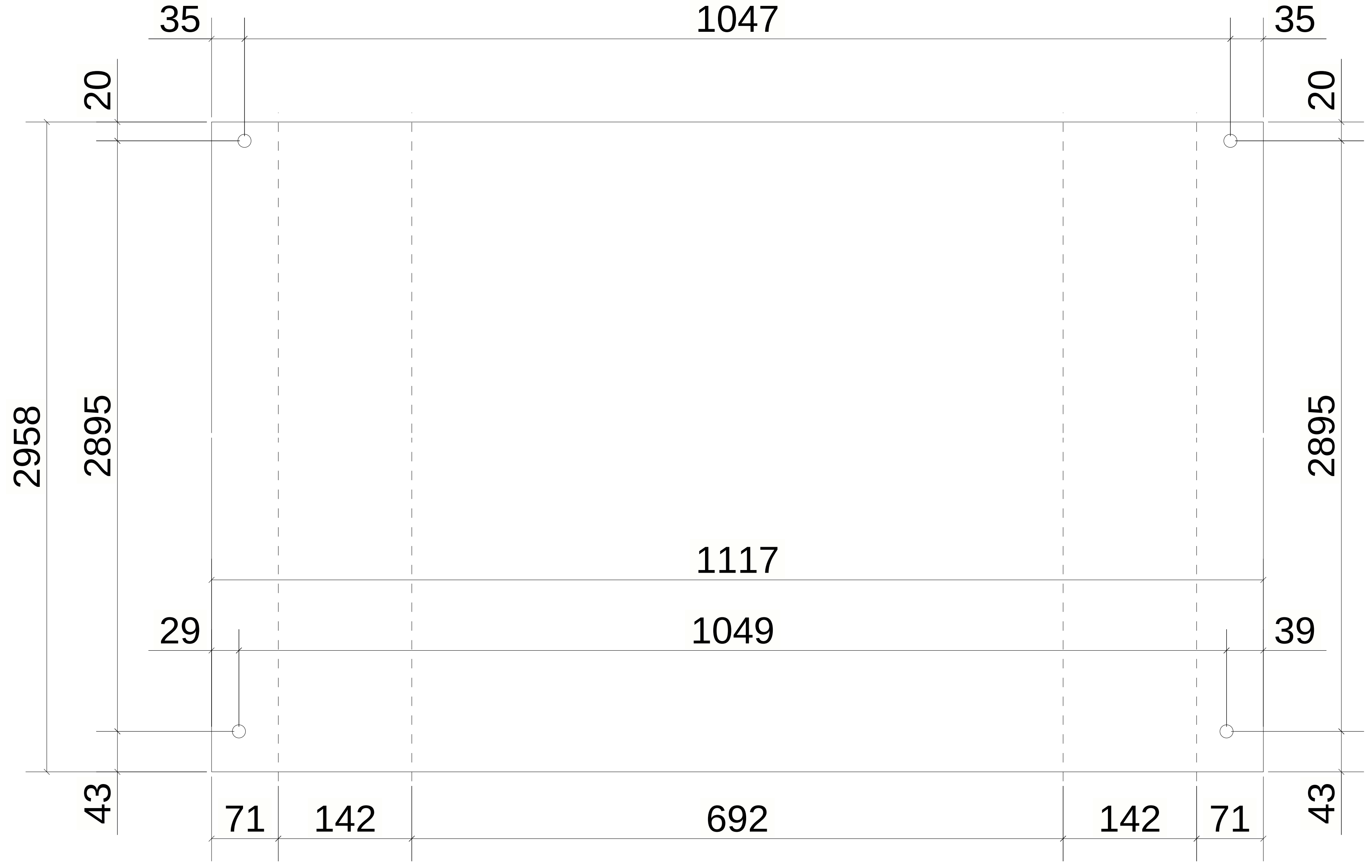
Tekla Structures

REVIEWED WITH
COMMENT
MONORAILS PROJECT

-For all planks assemblies slots and holes size are missing

MATERIAL LIST FOR ASSEMBLY MK'DCHQ-15

Mark	Profile	GRADE	No.	Length	Area	Weight
W-77	CHQ5*2958.0	S355JR	1	1117	6.65	129.45
				Total	6.65	129.45



UNFOLDED VIEW

1 *REQUIRED AS DRAWN MARKED* CHQ-15

6 October Monorail
Engineering Unit
Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority — Consultant — Main Contractor — Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

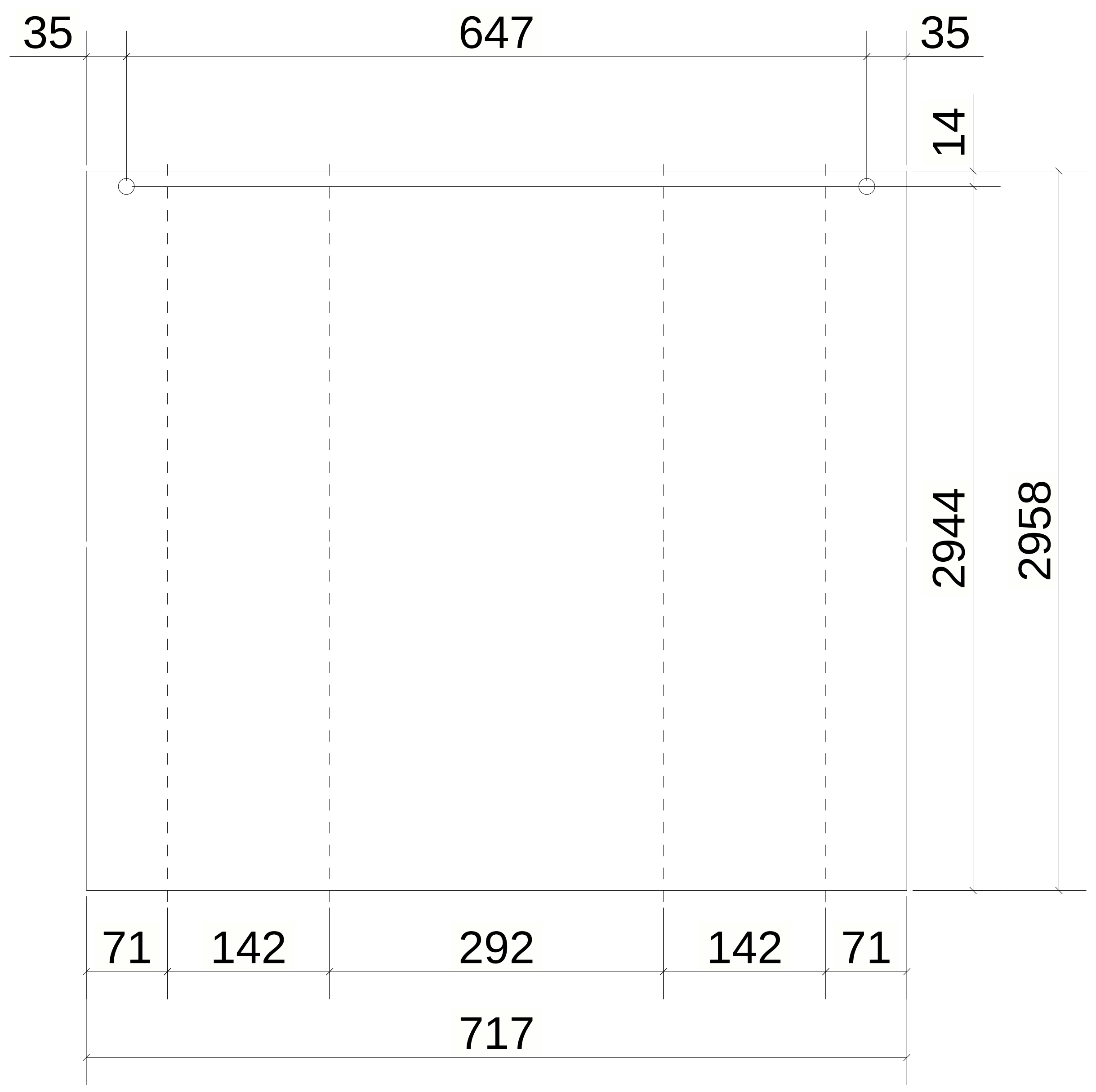
REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS
C	07.05.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
B	22.04.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
A	22.02.2023	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI

DRAWING TITLE

6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
WALK WAY : CHQ-15

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
9 3 M	0 4 7 3	A C C	6 0 L 0 0	D W G	5 0 0 3 9	C

Tekla Structures



UNFOLDED VIEW

MATERIAL LIST FOR ASSEMBLY MK'DCHQ-16

Mark	Profile	GRADE	No.	Length	Area	Weight
W-82	CHQ5*2958.0	S355JR	1	717	4.28	83.01
				Total	4.28	83.01

REVIEWED WITH COMMENT
MONORAILS PROJECT

-For all planks assemblies slots and holes size are missing

6 October Monorail
Engineering Unit
Valid For Construction

1 *REQUIRED AS DRAWN MARKED* CHQ-16

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority
Hill International
Consultant
Main Contractor
Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS
C	07.05.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
B	22.04.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
A	22.02.2023	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI

DRAWING TITLE

6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
WALK WAY : CHQ-16

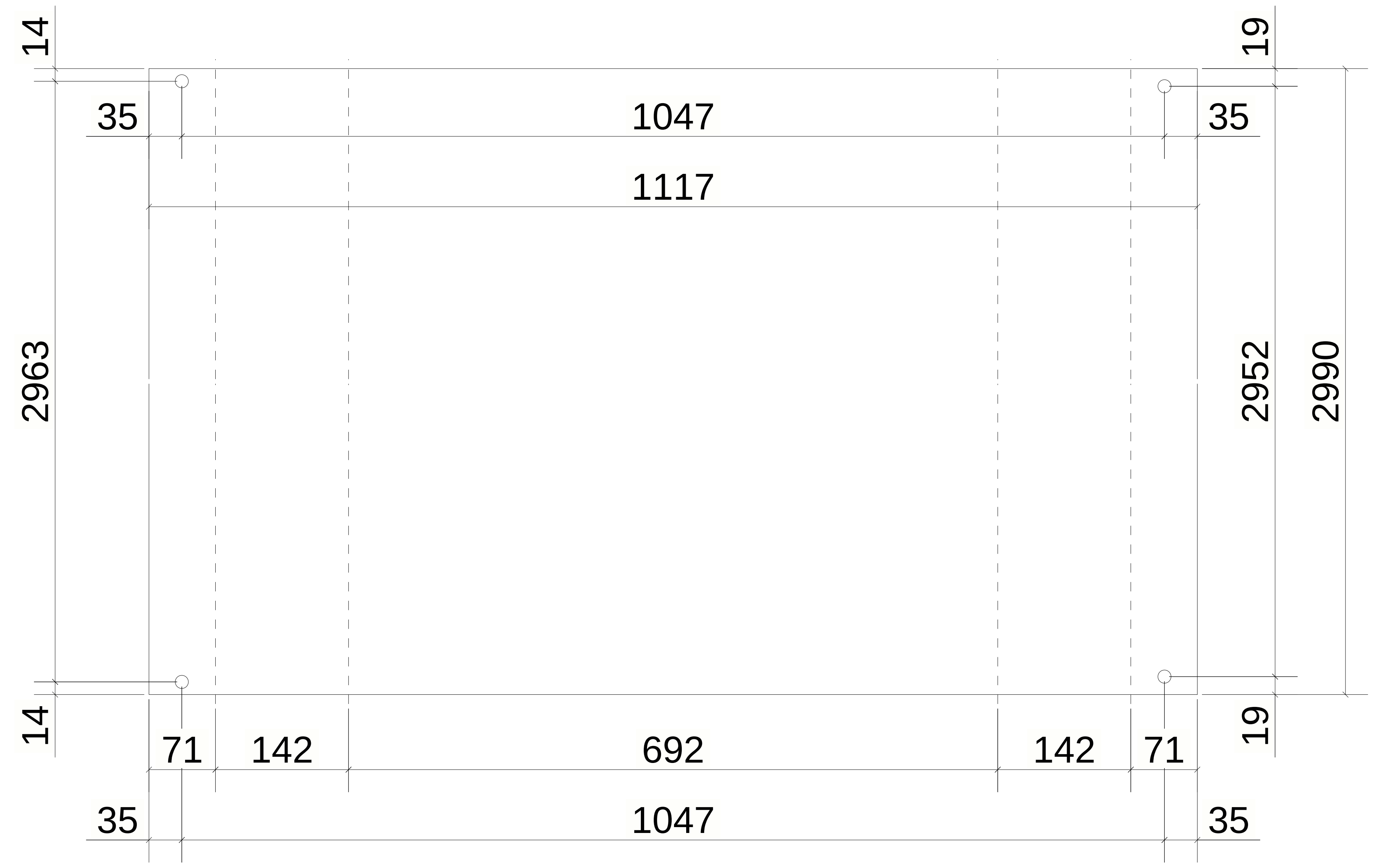
Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
9 3 M	0 4 7 3	A C C	6 0 L 0 0	D W G	5 0 0 4 0	C

Tekla Structures

REVIEWED WITH COMMENT
MONORAILS PROJECT

-For all planks assemblies slots and holes size are missing

MATERIAL LIST FOR ASSEMBLY MK'DCHQ-17						
Mark	Profile	GRADE	No.	Length	Area	Weight
W-89	CHQ5*2990.0	S355JR	1	1117	6.72	130.85
				Total	6.72	130.85



UNFOLDED VIEW

5 *REQUIRED AS DRAWN MARKED* CHQ-17

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2.WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3.ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS	
1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority
Hill International
Consultant
Main Contractor
Structural Designer

KEY PLAN:

6 October Monorail
Engineering Unit
Valid For Construction

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS
C	07.05.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
B	22.04.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
A	22.02.2023	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI

DRAWING TITLE
6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
WALK WAY : CHQ-17

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
93M	0473	ACC	60L00	DWG	50041	C

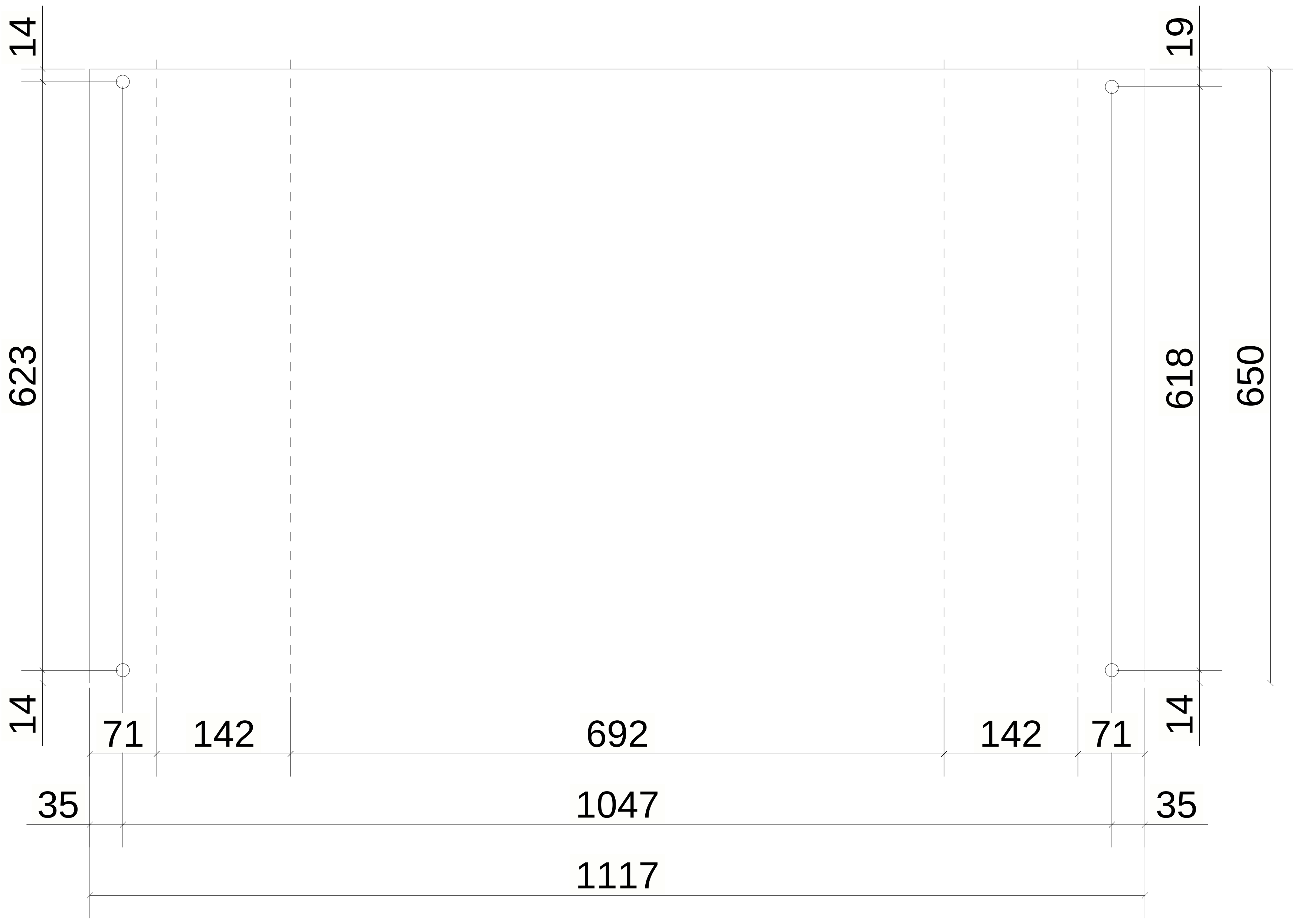
Tekla Structures

REVIEWED WITH COMMENT
MONORAILS PROJECT

-For all planks assemblies slots and holes size are missing

MATERIAL LIST FOR ASSEMBLY MK'DCHQ-18

Mark	Profile	GRADE	No.	Length	Area	Weight
W-88	CHQ5*650.0	S355JR	1	1117	1.47	28.45
				Total	1.47	28.45



UNFOLDED VIEW

1 *REQUIRED AS DRAWN MARKED* CHQ-18

6 October Monorail
Engineering Unit
Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority

Hill International
Consultant

ORASCOM BOMBARDIER
Main Contractor

INNOVA TRANSPORTATION
Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS
C	07.05.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
B	22.04.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
A	22.02.2023	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI

DRAWING TITLE

6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
WALK WAY : CHQ-18

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
9 3 M	0 4 7 3	A C C	6 0 L 0 0	D W G	5 0 0 4 2	C

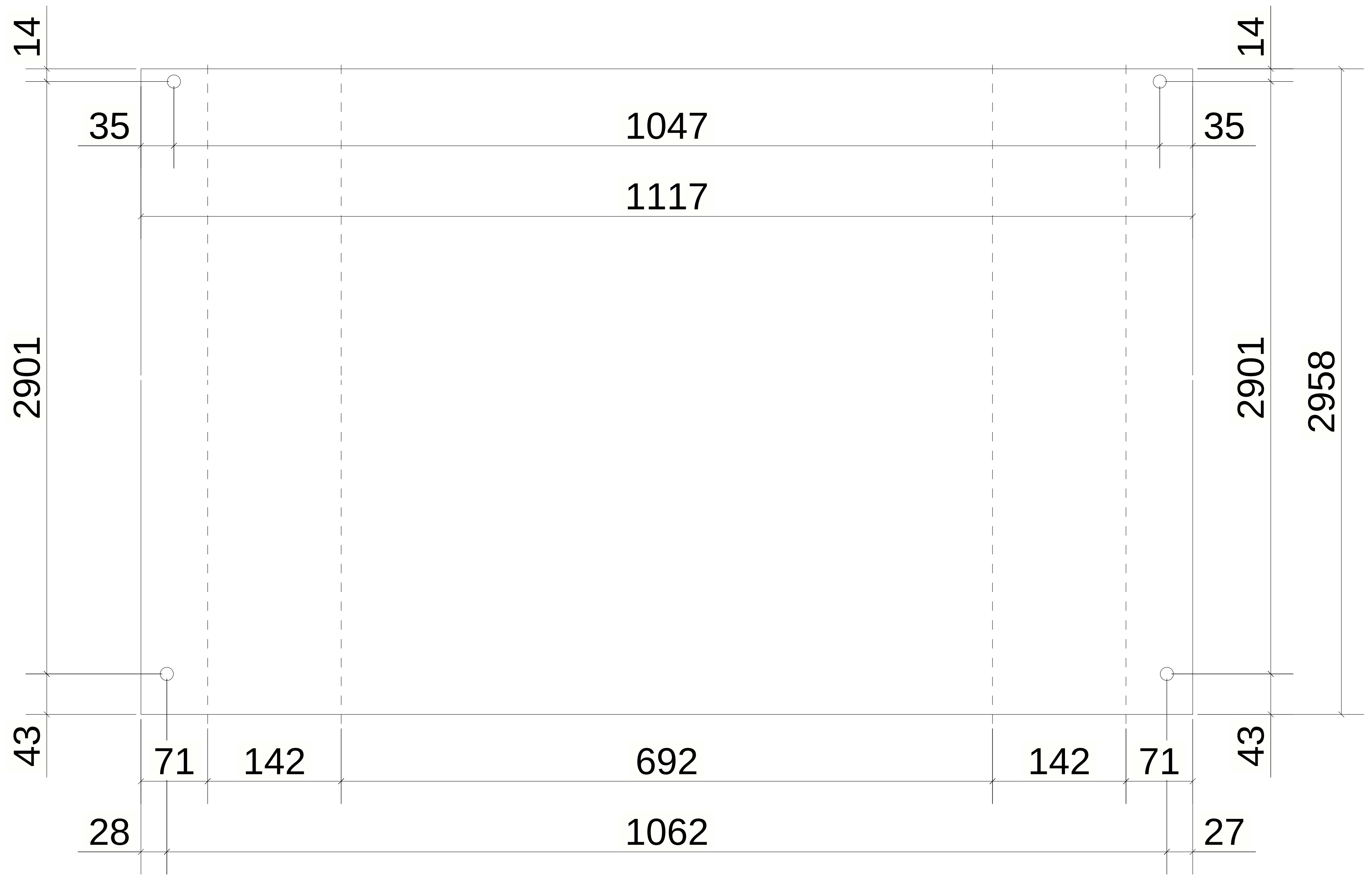
Tekla Structures

REVIEWED WITH COMMENT
MONORAILS PROJECT

-For all planks assemblies slots and holes size are missing

MATERIAL LIST FOR ASSEMBLY MK'DCHQ-19

Mark	Profile	GRADE	No.	Length	Area	Weight
W-87	CHQ5*2958.0	S355JR	1	1117	6.65	129.45
				Total	6.65	129.45



UNFOLDED VIEW

1 *REQUIRED AS DRAWN MARKED* CHQ-19

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority
Hill International
Consultant
Main Contractor
Structural Designer

KEY PLAN:

6 October Monorail
Engineering Unit
Valid For Construction

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS
C	07.05.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
B	22.04.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
A	22.02.2023	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI

DRAWING TITLE
6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
WALK WAY : CHQ-19

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
9 3 M	0 4 7 3	A C C	6 0 L 0 0	D W G	5 0 0 4 3	C

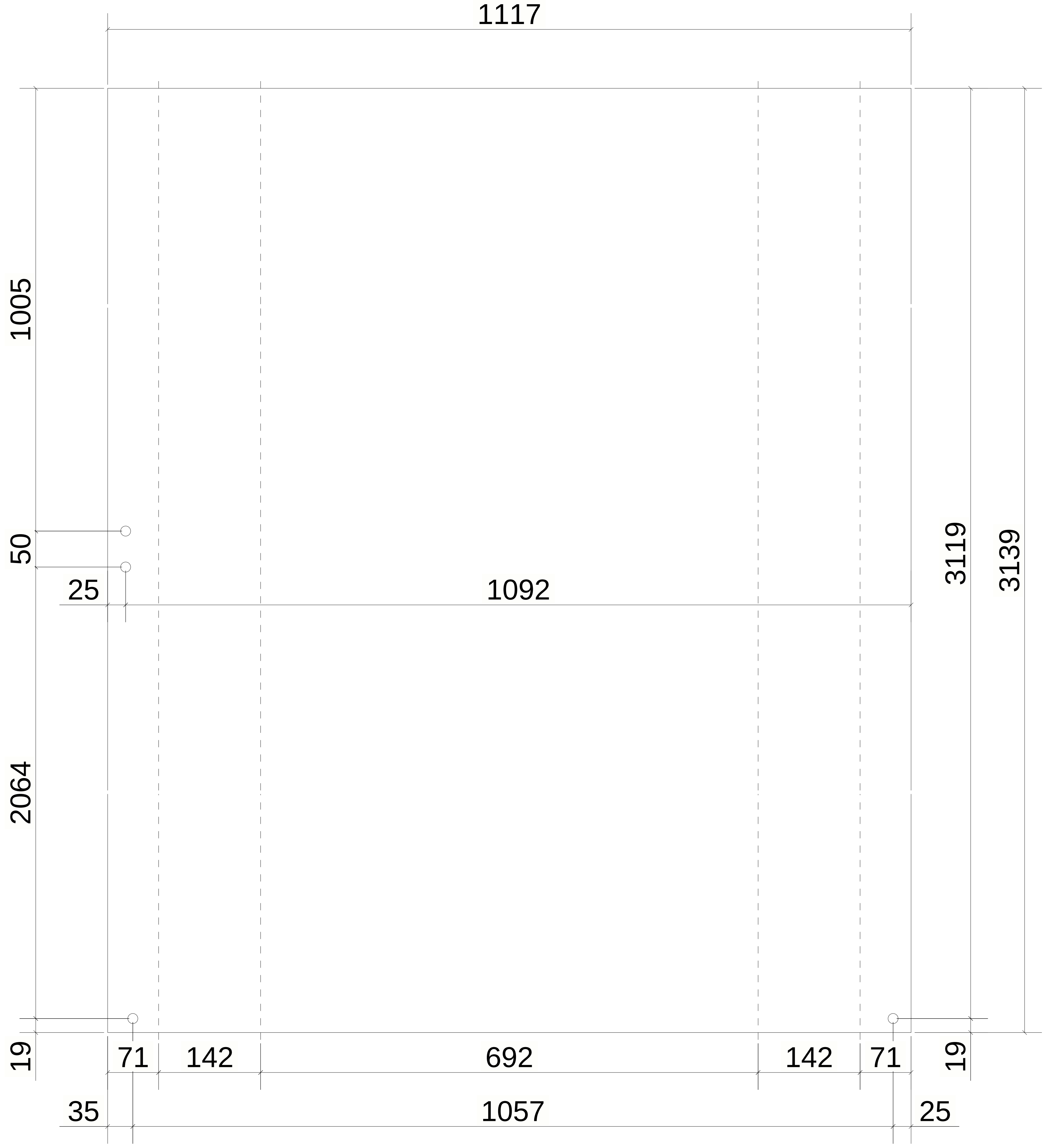
Tekla Structures

REVIEWED WITH COMMENT
MONORAILS PROJECT

-For all planks assemblies slots and holes size are missing

MATERIAL LIST FOR ASSEMBLY MK'DCHQ-20

Mark	Profile	GRADE	No.	Length	Area	Weight
W-143	CHQ5*3138.0	S355JR	1	1117	7.05	137.37
				Total	7.05	137.37



UNFOLDED VIEW

1 *REQUIRED AS DRAWN MARKED* CHQ-20

6 October Monorail
Engineering Unit
Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority

Hill International
Consultant

Main Contractor

Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS
C	07.05.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
B	22.04.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
A	22.02.2023	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI

DRAWING TITLE

6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
WALK WAY : CHQ-20

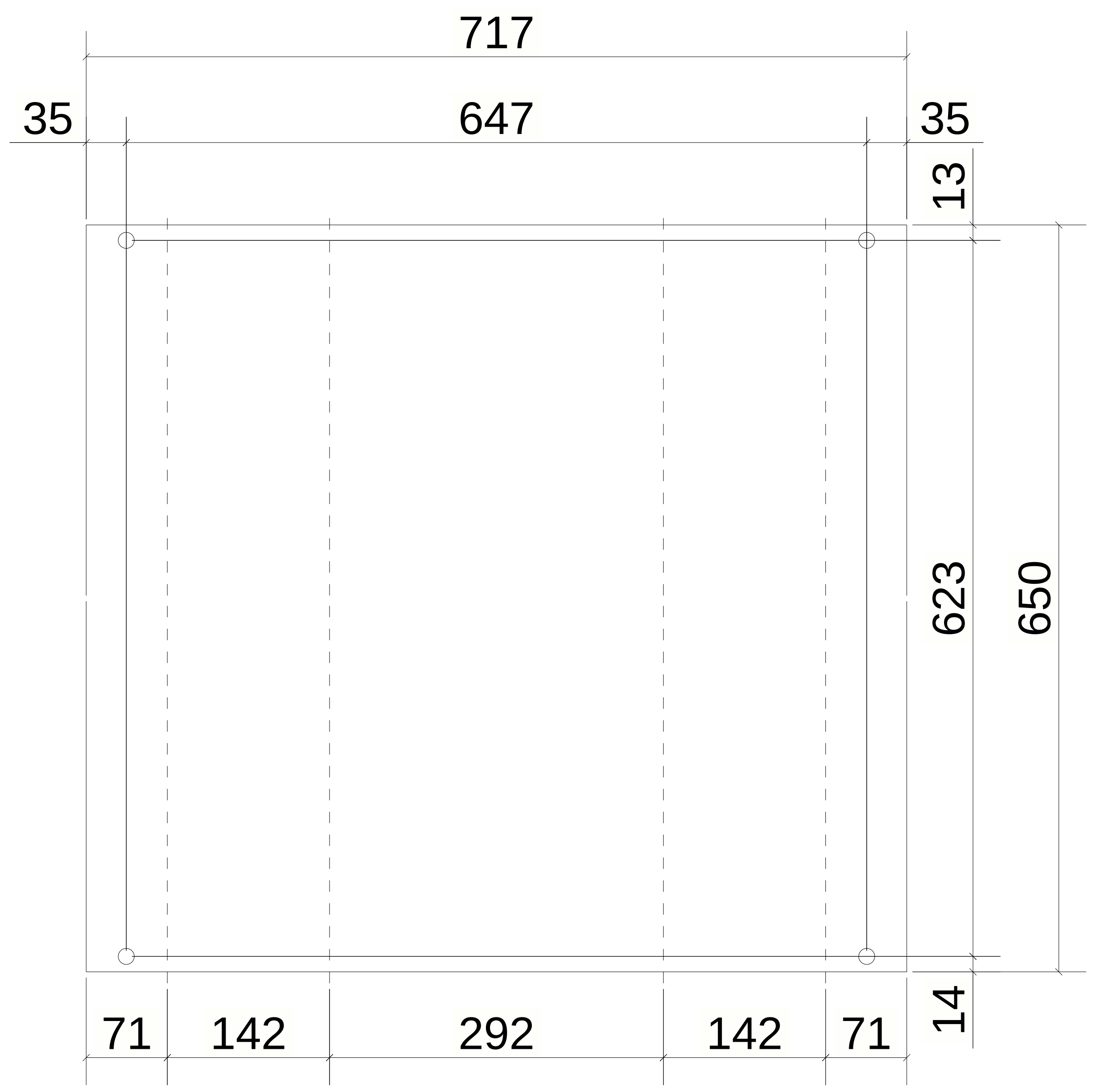
Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
93M	0473	ACC	60L00	DWG	50044	C

Tekla Structures

MATERIAL LIST FOR ASSEMBLY MK'DCHQ-21						
Mark	Profile	GRADE	No.	Length	Area	Weight
W-133	CHQ5*650.0	S355JR	1	717	0.95	18.24
				Total	0.95	18.24

REVIEWED WITH COMMENT MONORAILS PROJECT

-For all planks assemblies slots and holes size are missing



UNFOLDED VIEW

2 *REQUIRED AS DRAWN MARKED* CHQ-21

6 October Monorail Engineering Unit Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority

Hill International

Consultant

Main Contractor

Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS
C	07.05.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
B	22.04.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
A	22.02.2023	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI

DRAWING TITLE

6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
WALK WAY : CHQ-21

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
9 3 M	0 4 7 3	A C C	6 0 L 0 0	D W G	5 0 0 4 5	C

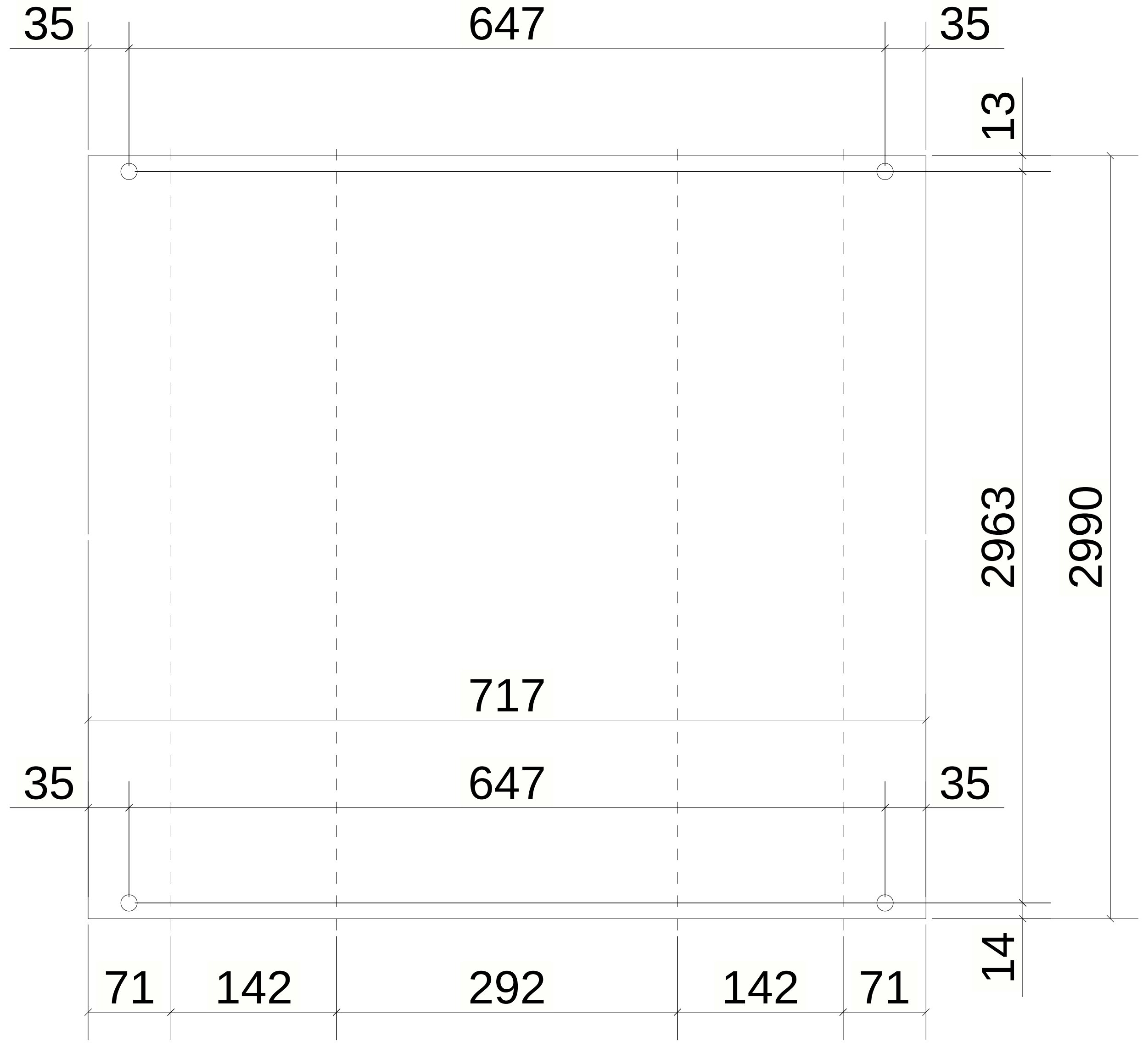
Tekla Structures

REVIEWED WITH COMMENT
MONORAILS PROJECT

-For all planks assemblies slots and holes size are missing

MATERIAL LIST FOR ASSEMBLY MK'DCHQ-22

Mark	Profile	GRADE	No.	Length	Area	Weight
W-134	CHQ5*2990.0	S355JR	1	717	4.32	83.91
				Total	4.32	83.91



UNFOLDED VIEW

10 *REQUIRED AS DRAWN MARKED* CHQ-22

6 October Monorail
Engineering Unit
Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority
Consultant
Main Contractor
Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS
C	07.05.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
B	22.04.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
A	22.02.2023	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI

DRAWING TITLE

6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
WALK WAY : CHQ-22

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
9 3	M 0 4 7	3 A C	C 6 0 L 0 0	D W G	5 0 0 4 6	C

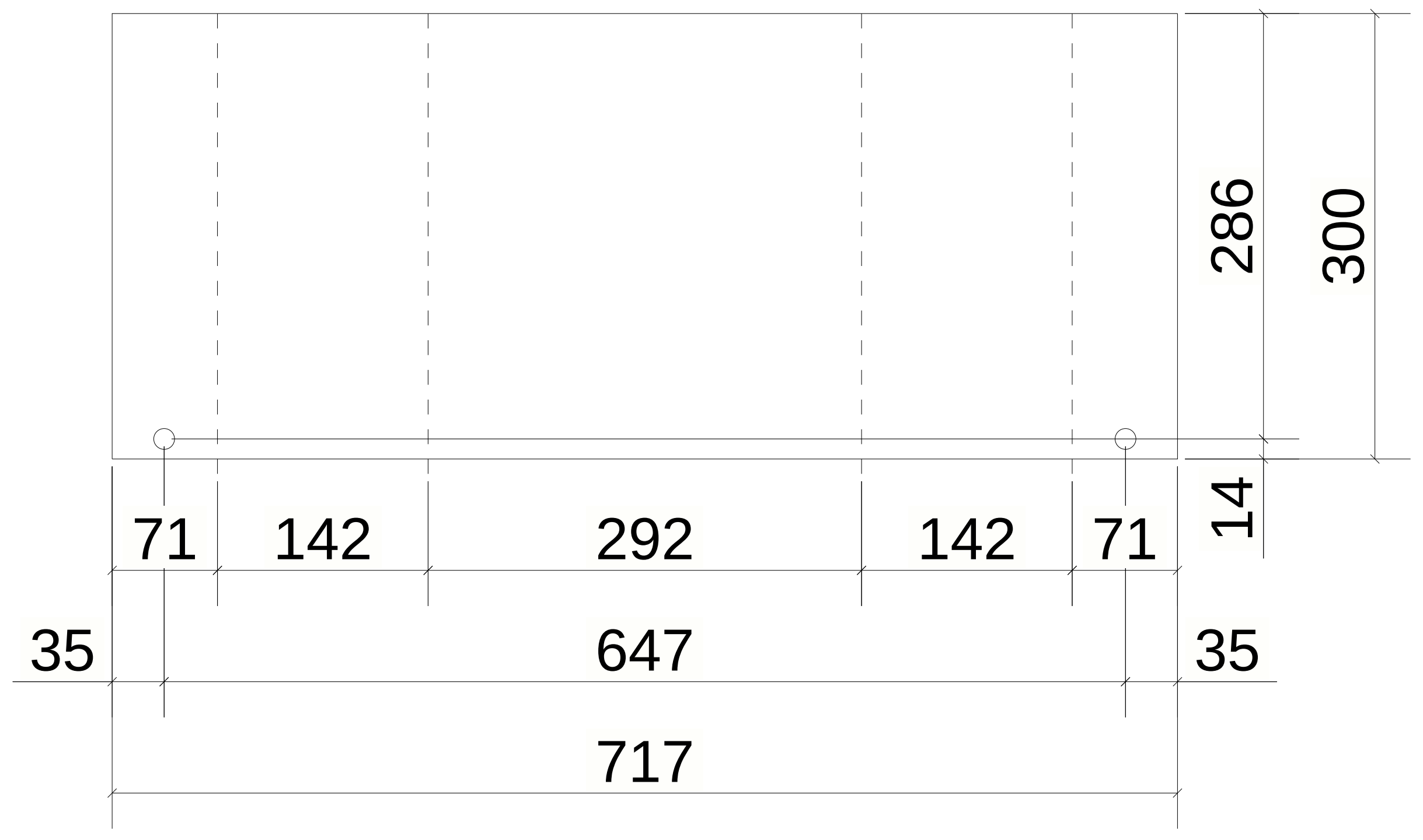
Tekla Structures

REVIEWED WITH
COMMENT
MONORAILS PROJECT

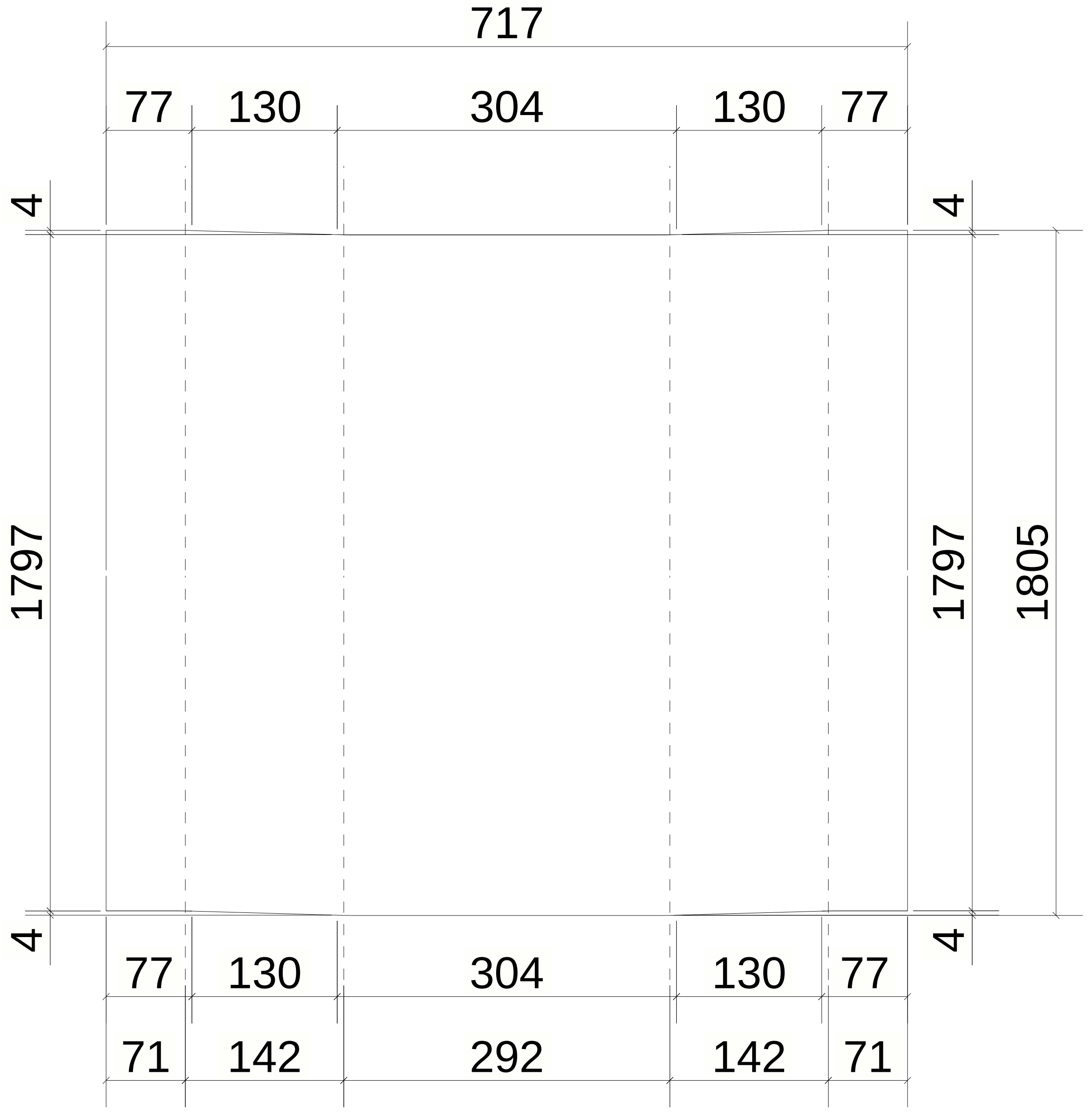
-For all planks assemblies slots and holes size are missing

MATERIAL LIST FOR ASSEMBLY MK'DCHQ-23

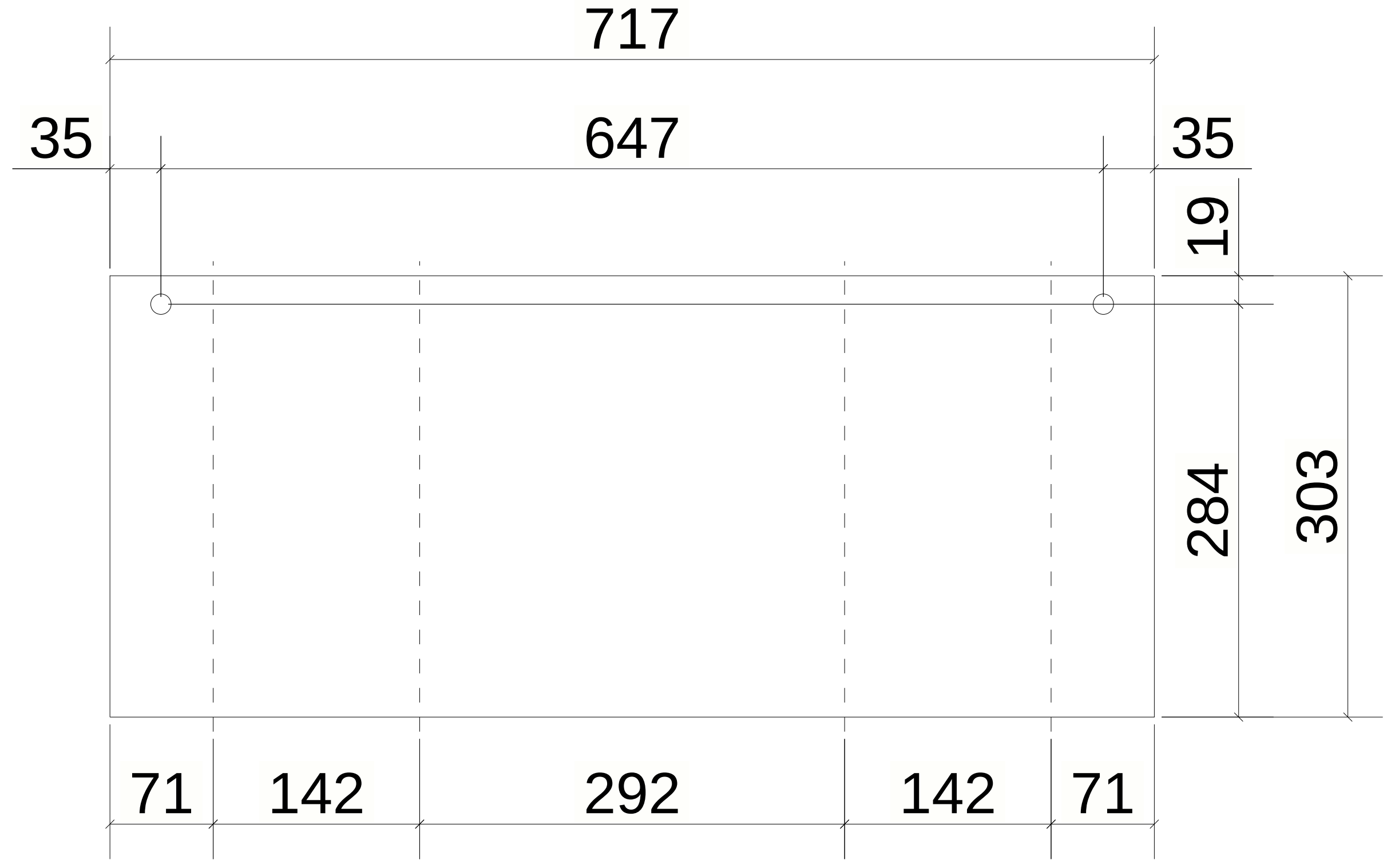
Mark	Profile	GRADE	No.	Length	Area	Weight
W-54	CHQ5*1804.0	S355JR	1	717	2.61	50.53
W-51	CHQD5*300	S355JR	1	717	0.44	8.42
W-142	CHQD5*303	S355JR	1	717	0.44	8.50
				Total	3.49	67.45



UNFOLDED VIEW



UNFOLDED VIEW



UNFOLDED VIEW

6 October Monorail
Engineering Unit
Valid For Construction

1 *REQUIRED AS DRAWN MARKED* CHQ-23

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

الهيئة القومية للأنفاق
NATIONAL AUTHORITY FOR TUNNELS (NAT)
وزارة النقل
The Authority

HILL
Hill International
Consultant

ORASCOM CONSTRUCTION
The Arab Contractors
Osman Ahmed Osman & Co
BOMBARDIER
Main Contractor

INNOVA TRANSPORTATION
ENGINEERING SOLUTIONS
STRUCTURAL ENGINEERING
CONSTRUCTION ENGINEERING
©2018
Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS
C	07.05.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
B	22.04.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
A	22.02.2023	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI

DRAWING TITLE

6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
WALK WAY : CHQ-23

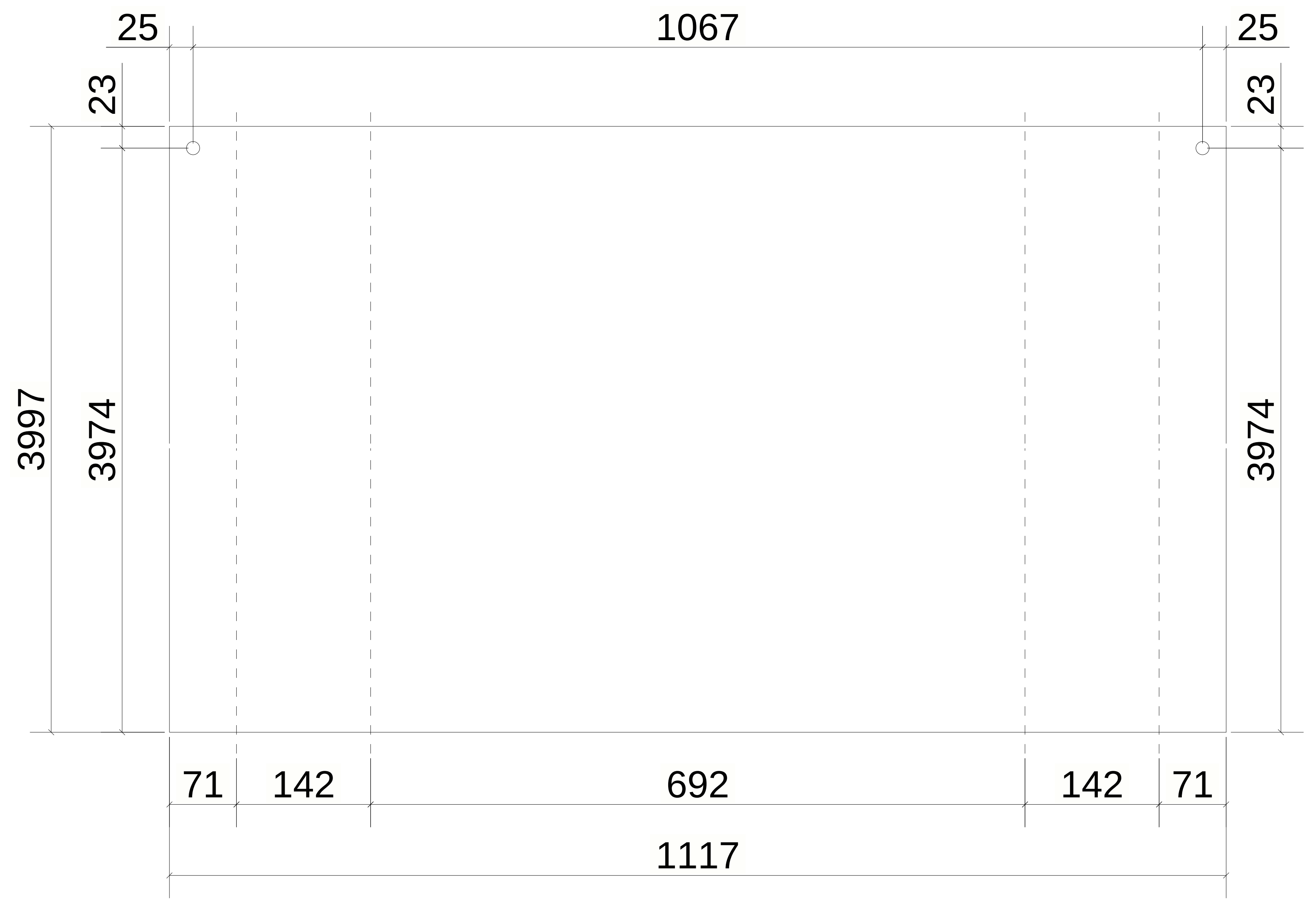
Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
93M	0473	ACC	60L00	DWG	50047	C

Tekla Structures

REVIEWED WITH COMMENT
MONORAILS PROJECT

-For all planks assemblies slots and holes size are missing

MATERIAL LIST FOR ASSEMBLY MK'D CHQ-24						
Mark	Profile	GRADE	No.	Length	Area	Weight
W-129	CHQ5*3998.0	S355JR	1	1117	8.98	174.94
				Total	8.98	174.94



UNFOLDED VIEW

1 *REQUIRED AS DRAWN MARKED* CHQ-24

6 October Monorail
Engineering Unit
Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority
Hill International
Consultant
Main Contractor
Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS
C	07.05.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
B	22.04.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
A	22.02.2023	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI

DRAWING TITLE

6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
WALK WAY : CHQ-24

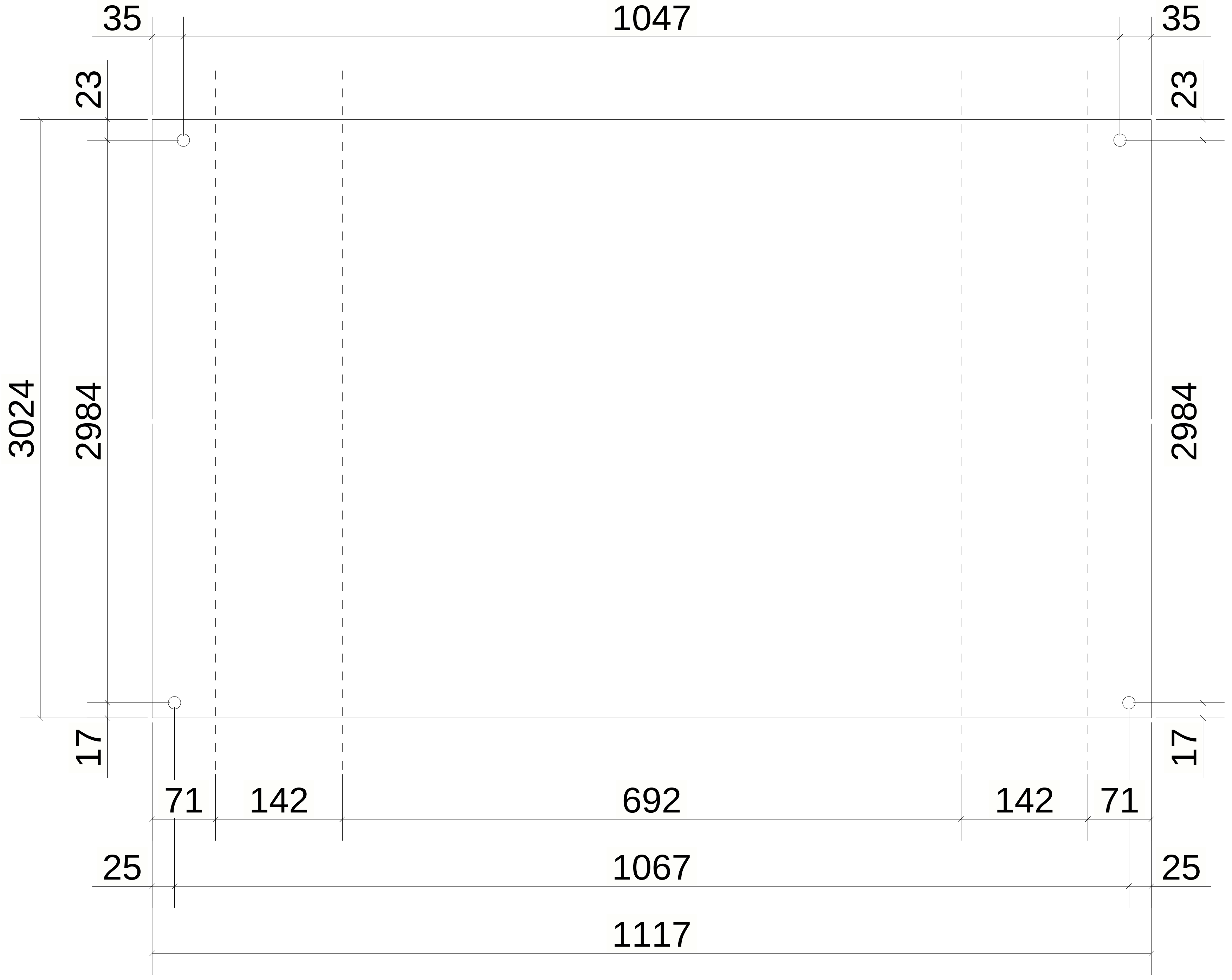
Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
93	M0473	ACC	60L00	DWG	50048	C

Tekla Structures

MATERIAL LIST FOR ASSEMBLY MK'DCHQ-25						
Mark	Profile	GRADE	No.	Length	Area	Weight
W-130	CHQ5*3024.0	S355JR	1	1117	6.79	132.32
				Total	6.79	132.32

REVIEWED WITH COMMENT
MONORAILS PROJECT

-For all planks assemblies slots and holes size are missing



UNFOLDED VIEW

9 *REQUIRED AS DRAWN MARKED* CHQ-25

6 October Monorail
Engineering Unit
Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority
Hill International
Consultant
ORASCOM BOMBARDIER The Arab Contractors
Main Contractor
INNOVA TRANSPORTATION
Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS
C	07.05.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
B	22.04.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
A	22.02.2023	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI

DRAWING TITLE
6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
WALK WAY : CHQ-25

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
93	M047	3ACC	60L00	DWG	50049	C

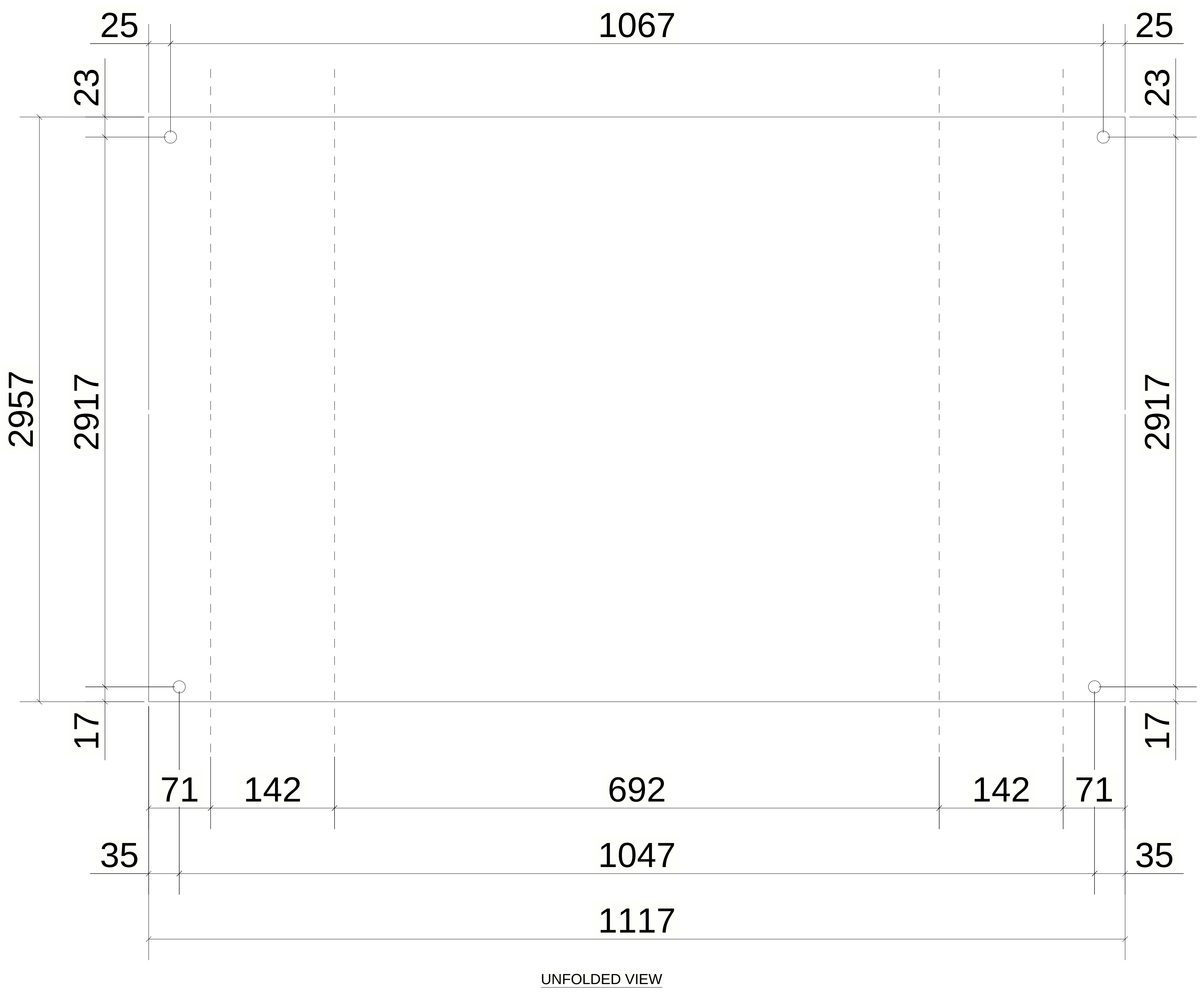
Tekla Structures

REVIEWED WITH COMMENT
MONORAILS PROJECT

-For all planks assemblies slots and holes size are missing

MATERIAL LIST FOR ASSEMBLY MK'DCHQ-27

Mark	Profile	GRADE	No.	Length	Area	Weight
W-131	CHQ5*2956.0	S355JR	1	1117	6.64	129.39
				Total	6.64	129.39



4 *REQUIRED AS DRAWN MARKED* CHQ-27

6 October Monorail
Engineering Unit
Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority
Consultant
Main Contractor
Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS
C	07.05.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
B	22.04.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
A	22.02.2023	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI

DRAWING TITLE
6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
WALK WAY : CHQ-27

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
93M	0473	ACC	60L00	DWG	50050	C

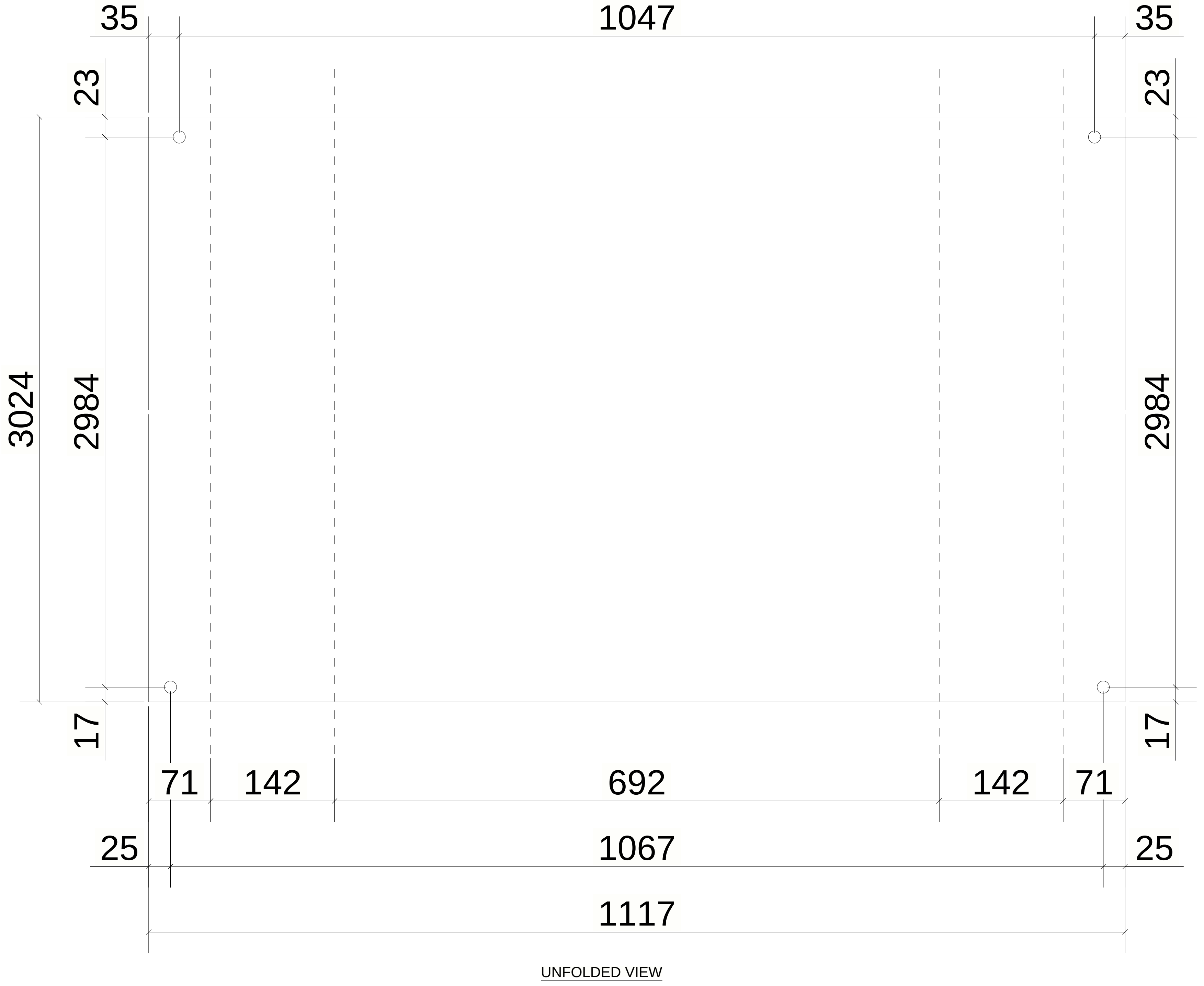
Tekla Structures

MATERIAL LIST FOR ASSEMBLY MK'DCHQ-28

Mark	Profile	GRADE	No.	Length	Area	Weight
W-132	CHQ5*3024.0	S355JR	1	1117	6.79	132.32
				Total	6.79	132.32

REVIEWED WITH COMMENT
MONORAILS PROJECT

-For all planks assemblies slots and holes size are missing



UNFOLDED VIEW

1 *REQUIRED AS DRAWN MARKED* CHQ-28

6 October Monorail
Engineering Unit
Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority
Consultant
Main Contractor
Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS
C	07.05.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
B	22.04.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
A	22.02.2023	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI

DRAWING TITLE

6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
WALK WAY : CHQ-28

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
93M	0473	ACC	60L00	DWG	50051	C

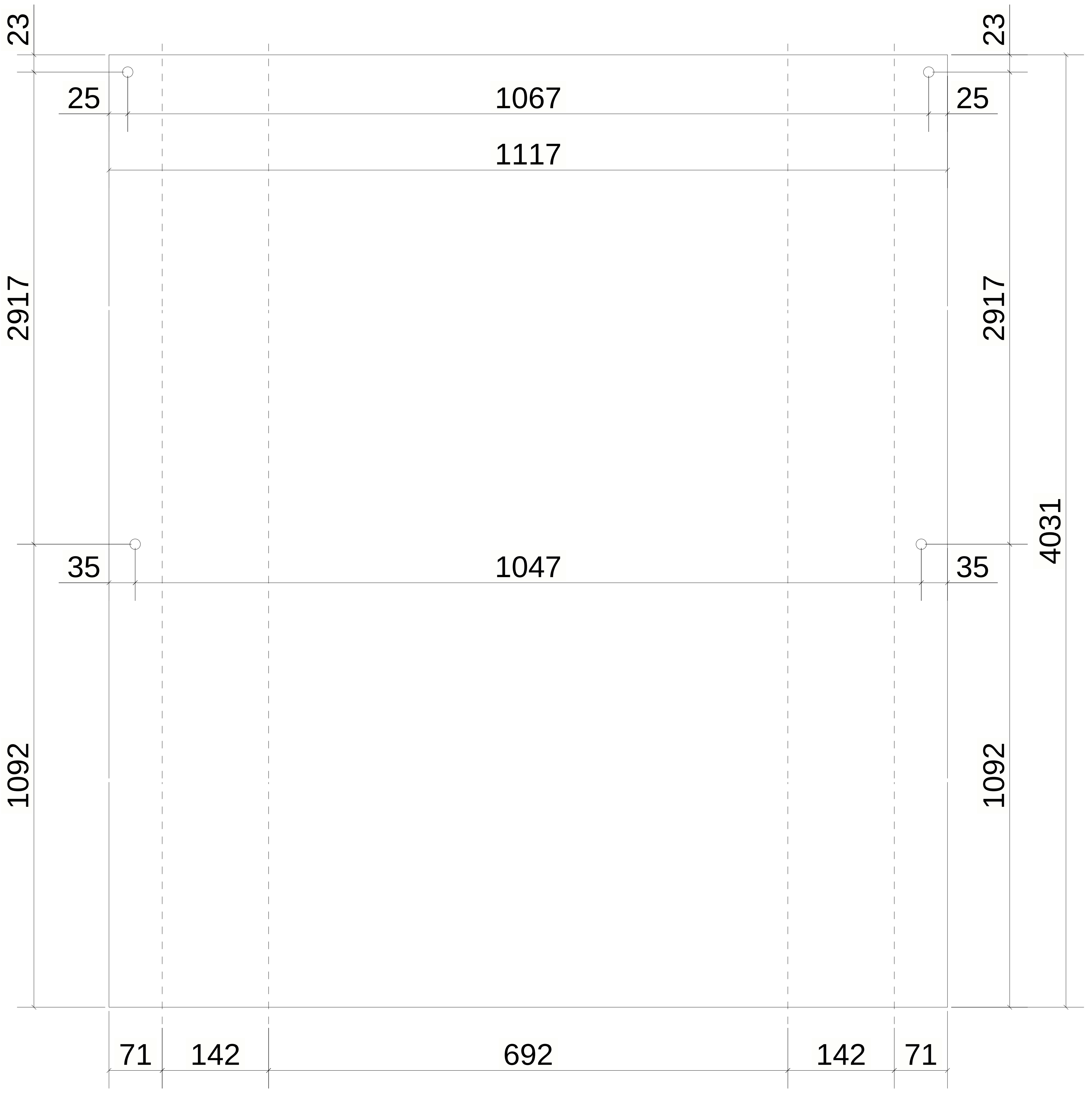
Tekla Structures

MATERIAL LIST FOR ASSEMBLY MK'DCHQ-29

Mark	Profile	GRADE	No.	Length	Area	Weight
W-135	CHQ5*4032.0	S355JR	1	1117	9.05	176.43
				Total	9.05	176.43

REVIEWED WITH COMMENT
MONORAILS PROJECT

-For all planks assemblies slots and holes size are missing



UNFOLDED VIEW

1 *REQUIRED AS DRAWN MARKED* CHQ-29

6 October Monorail
Engineering Unit
Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority
Hill International
Consultant
Main Contractor
Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS
C	07.05.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
B	22.04.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
A	22.02.2023	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI

DRAWING TITLE

6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
WALK WAY : CHQ-29

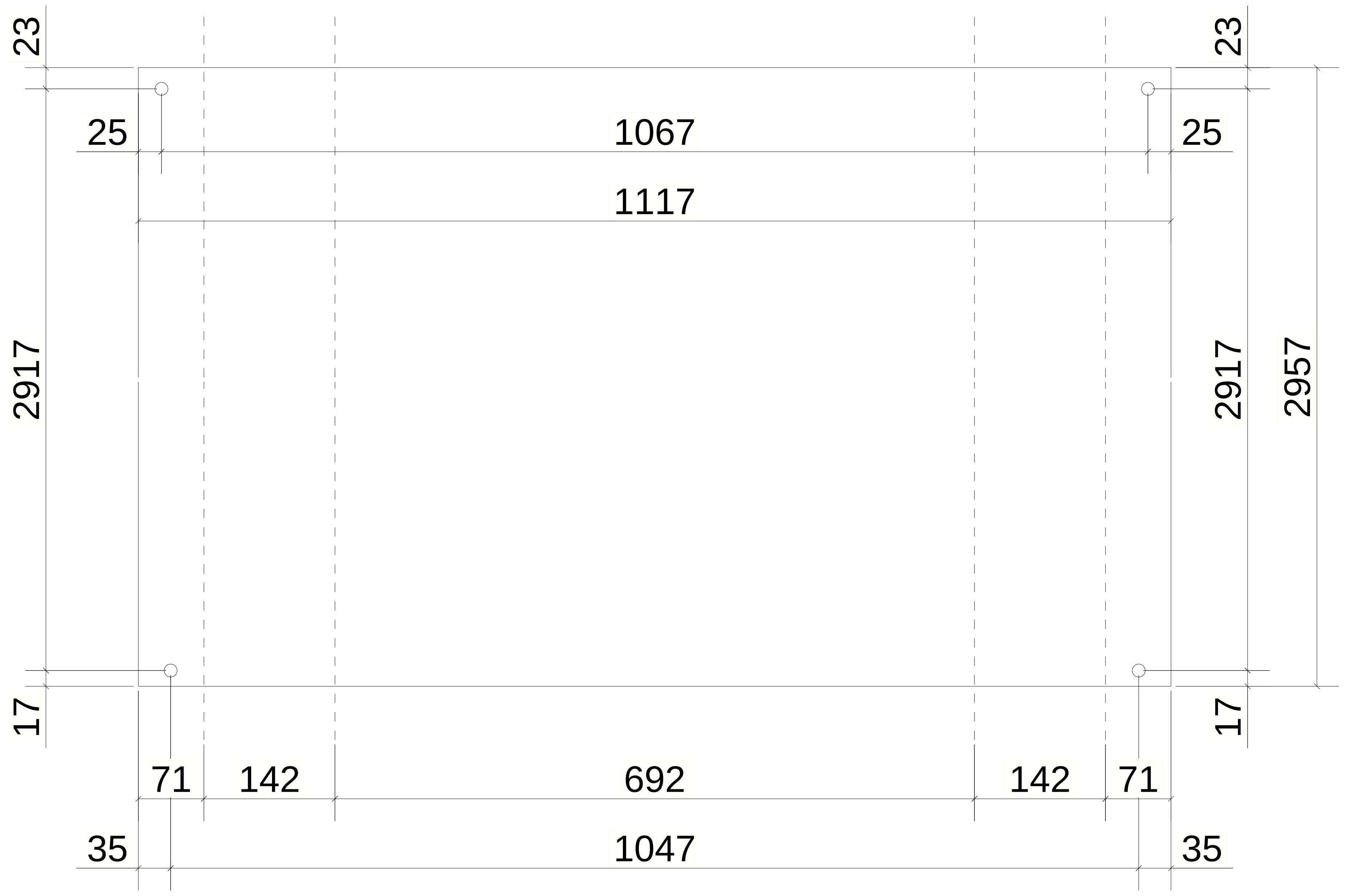
Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
93M	0473	ACC	60L00	DWG	50052	C

Tekla Structures

MATERIAL LIST FOR ASSEMBLY MK'DCHQ-30						
Mark	Profile	GRADE	No.	Length	Area	Weight
W-136	CHQ5*2956.0	S355JR	1	1117	6.64	129.39
				Total	6.64	129.39

REVIEWED WITH COMMENT
MONORAILS PROJECT

-For all planks assemblies slots and holes size are missing



UNFOLDED VIEW

2 *REQUIRED AS DRAWN MARKED* CHQ-30

6 October Monorail
Engineering Unit
Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority
Consultant
Main Contractor
Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS
C	07.05.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
B	22.04.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
A	22.02.2023	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI

DRAWING TITLE

6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
WALK WAY : CHQ-30

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
93	M047	3ACC	60L00	DWG	50053	C

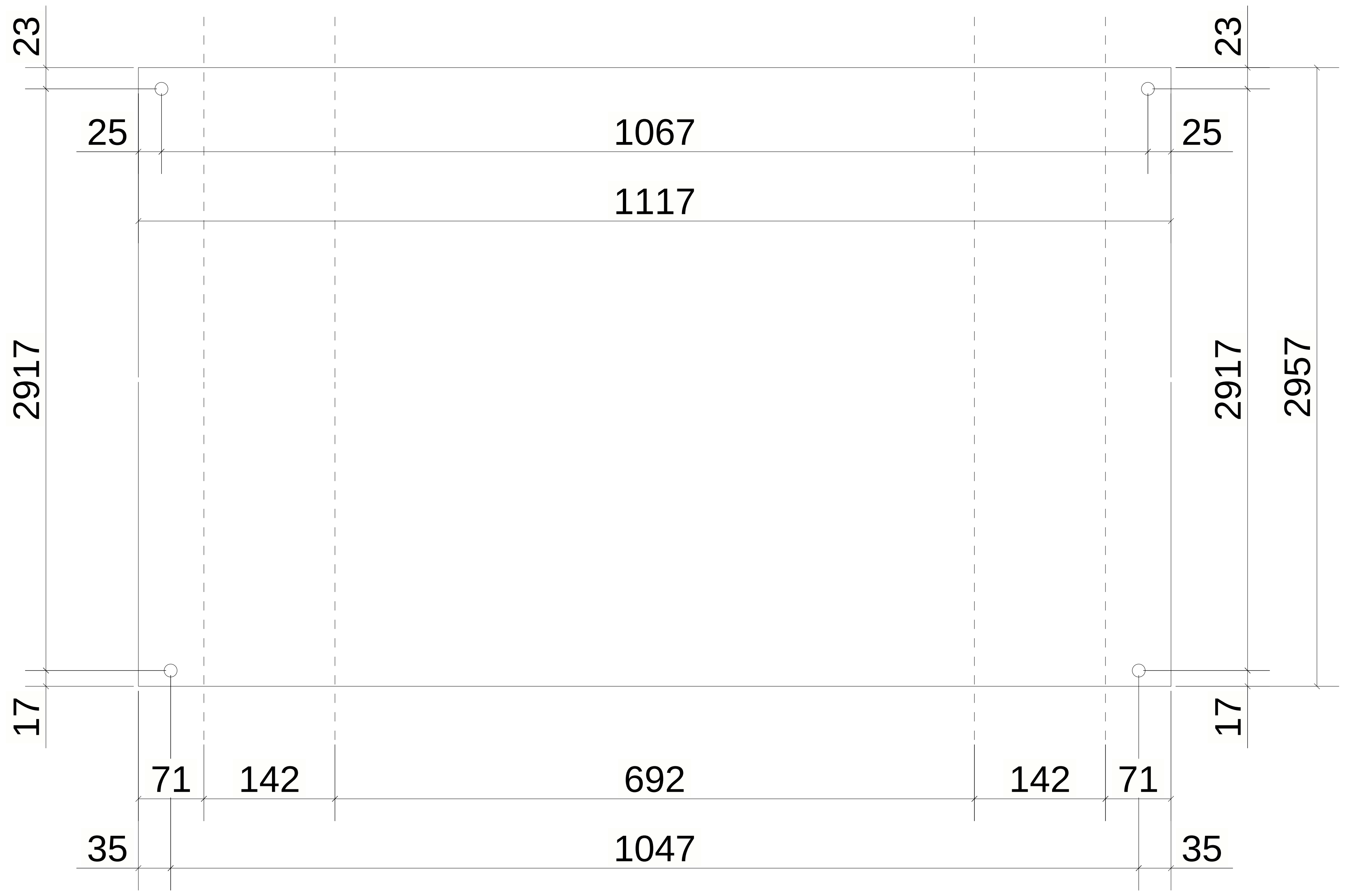
Tekla Structures

REVIEWED WITH COMMENT
MONORAILS PROJECT

-For all planks assemblies slots and holes size are missing

MATERIAL LIST FOR ASSEMBLY MK'DCHQ-31

Mark	Profile	GRADE	No.	Length	Area	Weight
W-137	CHQ5*2956.0	S355JR	1	1117	6.64	129.39
				Total	6.64	129.39



UNFOLDED VIEW

2 *REQUIRED AS DRAWN MARKED* CHQ-31

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority
Consultant
Main Contractor
Structural Designer

KEY PLAN:

6 October Monorail
Engineering Unit
Valid For Construction

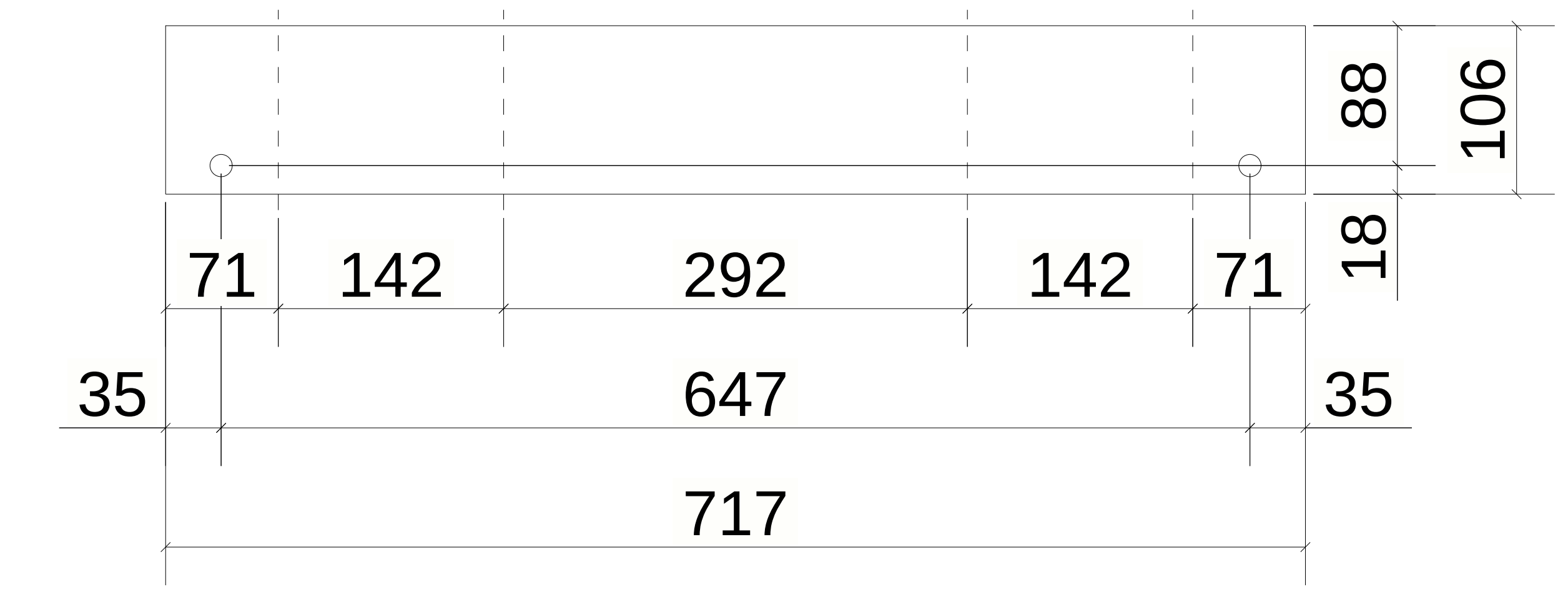
SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS
C	07.05.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
B	22.04.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
A	22.02.2023	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI

DRAWING TITLE
6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
WALK WAY : CHQ-31

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
9 3	M 0 4 7 3	A C C	6 0 L 0 0	D W G	5 0 0 5 4	C

Tekla Structures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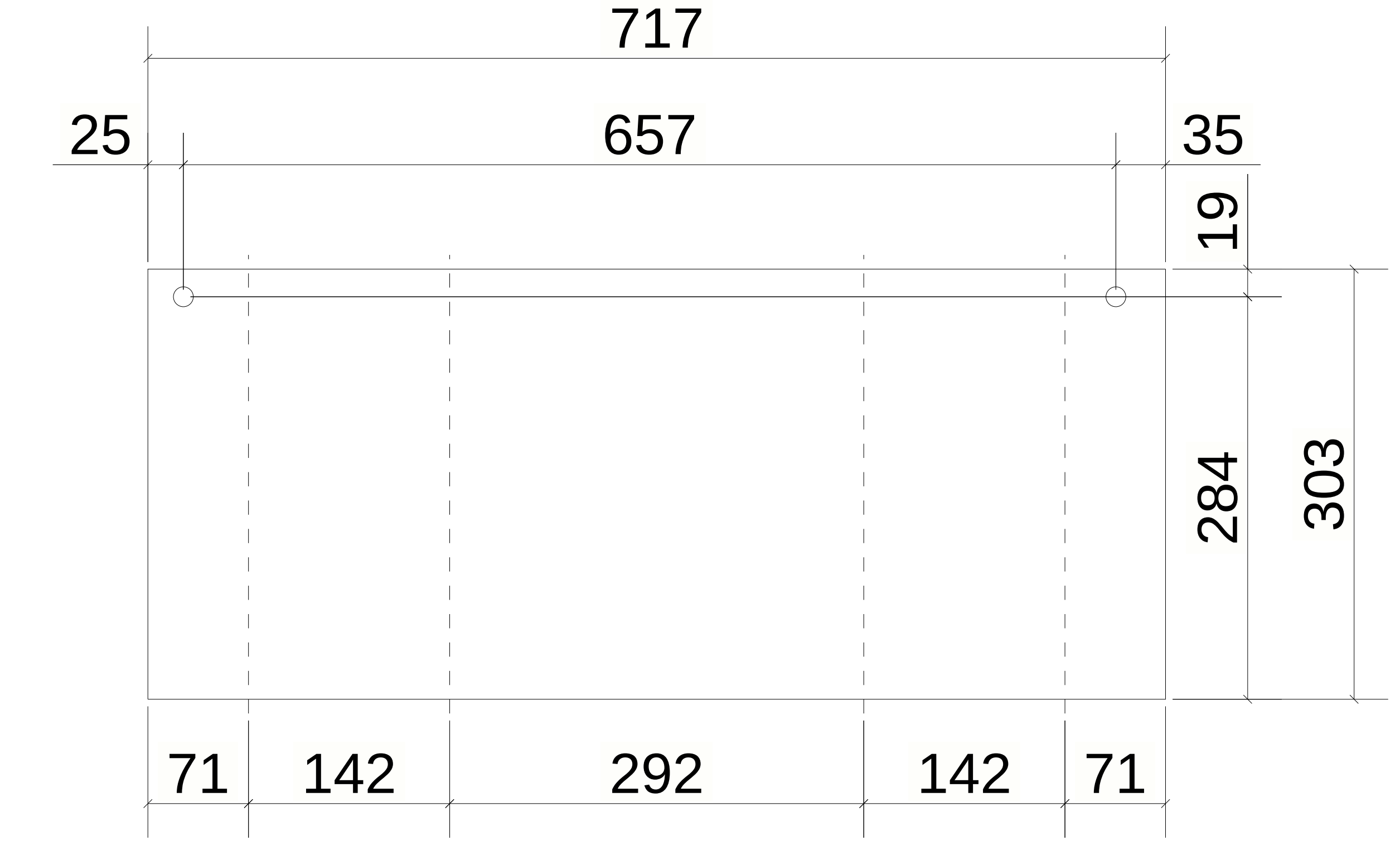
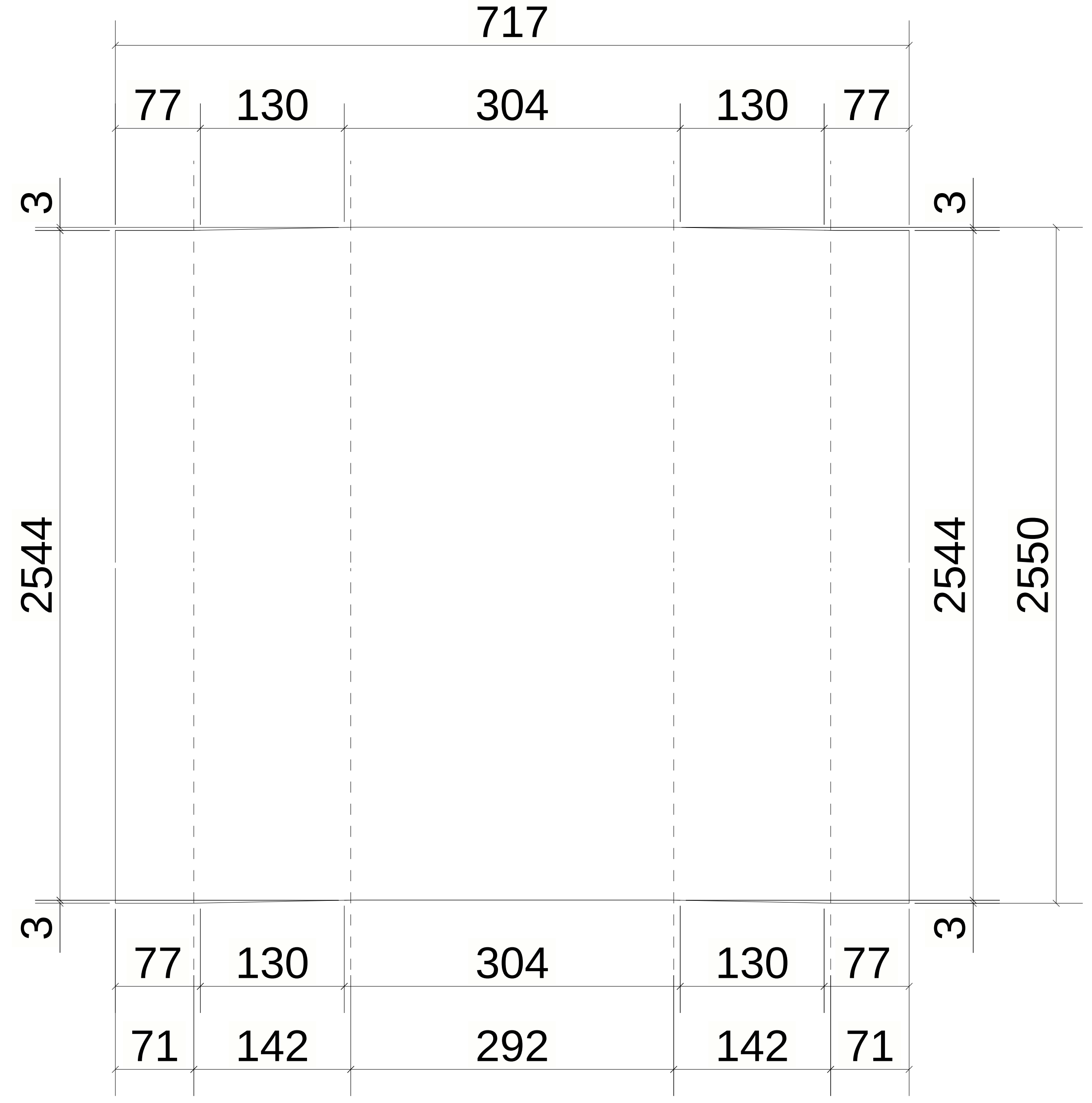
106
18
71
142
292
142
71
35
647
35
717

UNFOLDED VIEW


717
25
657
35
19
284
303
71
142
292
142
71

UNFOLDED VIEW


717
77
130
304
130
77
3
3
2544
2544
2550
3
3
77
130
304
130
77
71
142
292
142
71

UNFOLDED VIEW

MATERIAL LIST FOR ASSEMBLY MK'DCHQ-32

Mark	Profile	GRADE	No.	Length	Area	Weight
W-80	CHQ5*2550.0	S355JR	1	717	3.68	71.48
W-138	CHQD5*106	S355JR	1	717	0.16	2.97
W-139	CHQD5*303	S355JR	1	717	0.44	8.50
				Total	4.29	82.96

REVIEWED WITH COMMENT MONORAILS PROJECT

-For all planks assemblies slots and holes size are missing

6 October Monorail Engineering Unit Valid For Construction

1 *REQUIRED AS DRAWN MARKED* CHQ-32

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority
Hill International
Consultant
Main Contractor
Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

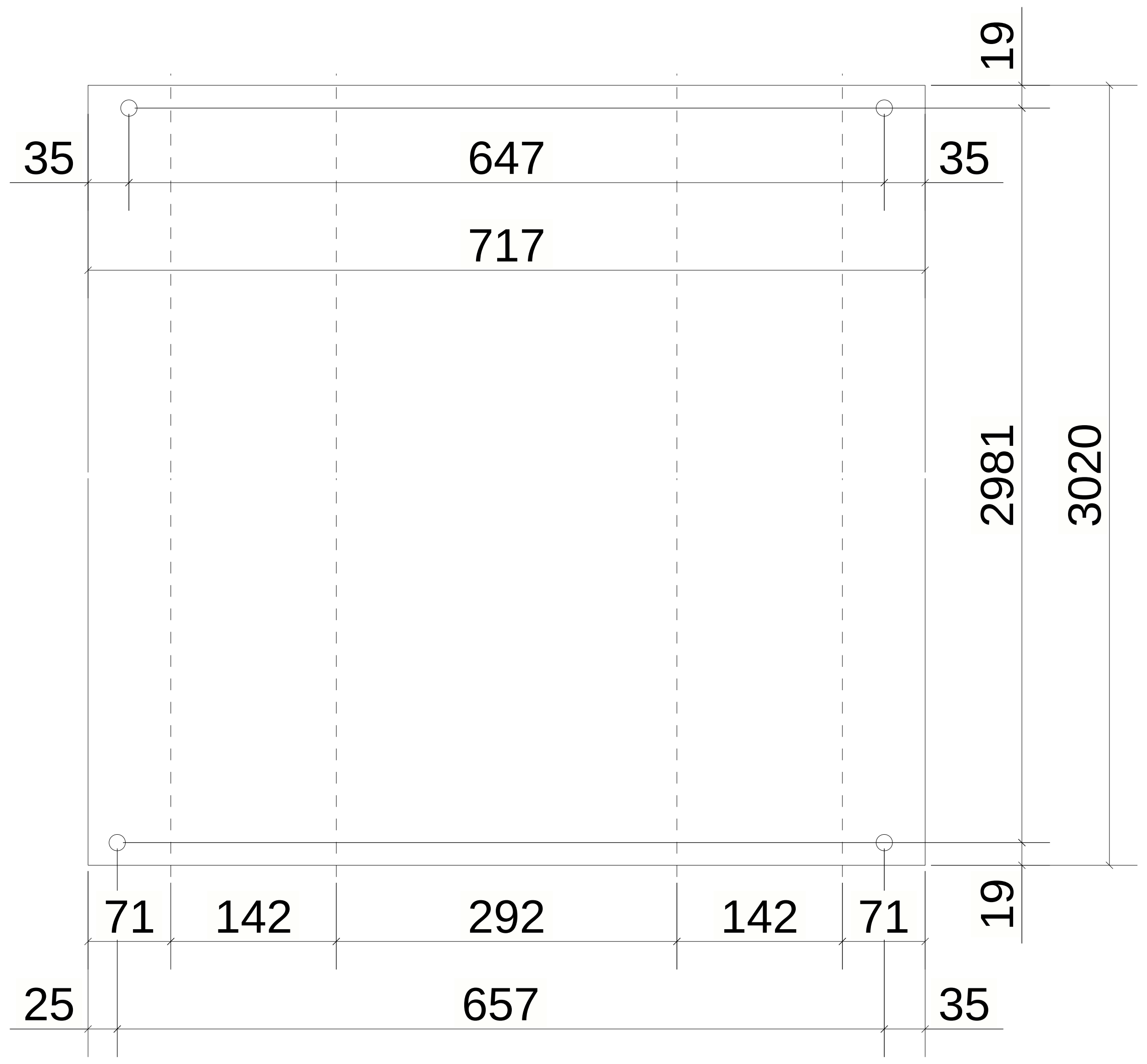
REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS
C	07.05.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
B	22.04.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
A	22.02.2023	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI

DRAWING TITLE

6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
WALK WAY : CHQ-32

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
9 3 M	0 4 7 3	A C C	6 0 L 0 0	D W G	5 0 0 5 5	C

Tekla Structures



UNFOLDED VIEW

MATERIAL LIST FOR ASSEMBLY MK'DCHQ-33						
Mark	Profile	GRADE	No.	Length	Area	Weight
W-140	CHQ5*3020.0	S355JR	1	717	4.36	84.74
				Total	4.36	84.74

REVIEWED WITH COMMENT
MONORAILS PROJECT

-For all planks assemblies slots and holes size are missing

6 October Monorail
Engineering Unit
Valid For Construction

1 *REQUIRED AS DRAWN MARKED* CHQ-33

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority

Hill International
Consultant

Main Contractor

Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS
C	07.05.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
B	22.04.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
A	22.02.2023	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI

DRAWING TITLE

6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
WALK WAY : CHQ-33

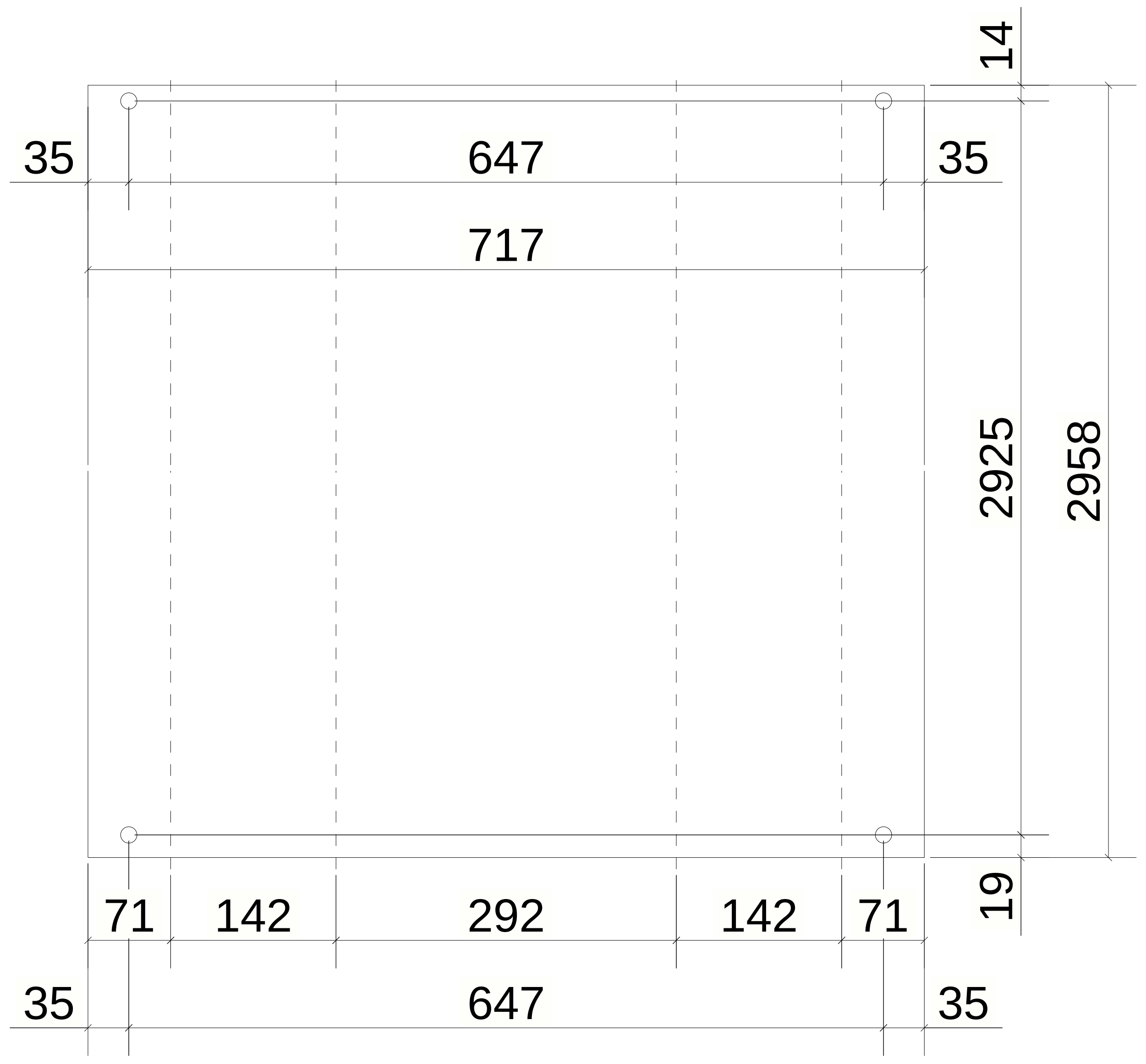
Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
93M	0473	ACC	60L00	DWG	50056	C

Tekla Structures

MATERIAL LIST FOR ASSEMBLY MK'DCHQ-34						
Mark	Profile	GRADE	No.	Length	Area	Weight
W-141	CHQ5*2958.0	S355JR	1	717	4.28	83.01
				Total	4.28	83.01

REVIEWED WITH COMMENT MONORAILS PROJECT

-For all planks assemblies slots and holes size are missing



UNFOLDED VIEW

1 *REQUIRED AS DRAWN MARKED* CHQ-34

6 October Monorail Engineering Unit Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority

Hill International
Consultant

Main Contractor

Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS
C	07.05.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
B	22.04.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
A	22.02.2023	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI

DRAWING TITLE

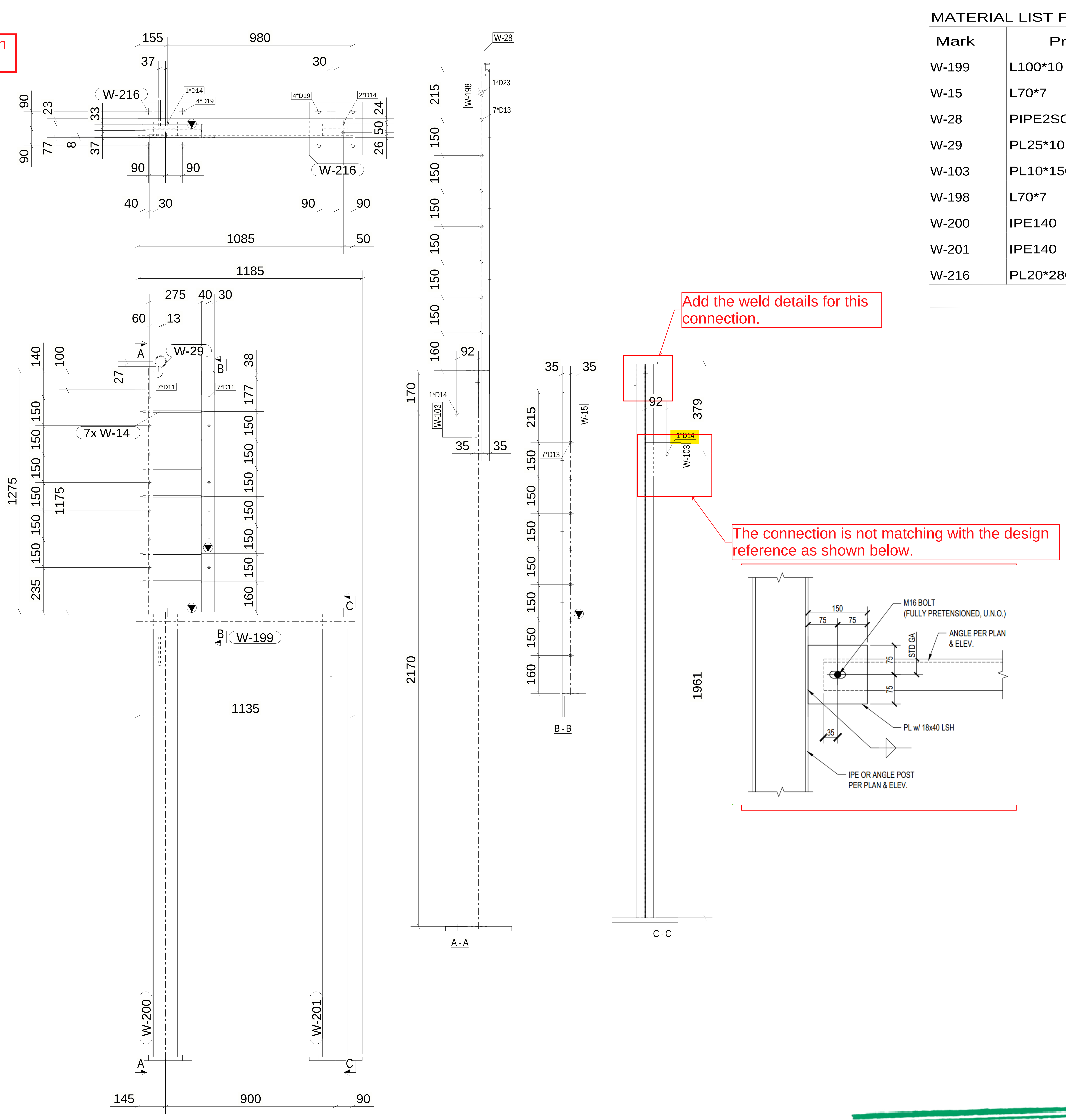
6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
WALK WAY : CHQ-34

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
9 3 M	0 4 7 3	A C C	6 0 L 0 0	D W G	5 0 0 5 7	C

Tekla Structures

Drawing shall be updated accordingto the comments on the GA drawing.

REVIEWED WITH COMMENT
MONORAILS PROJECT



155
980
37
30
W-216
1*D14
4*D19
2*D14
90
23
33
77
8
37
24
50
26
90
90
W-216
90
90
40
30
1085
50
1185
275
40
30
60
13
A
W-29
B
140
100
27
7*D11
7*D11
38
177
1275
1175
7x W-14
150
235
160
C
B
W-199
1135
W-200
W-201
A
C
145
900
90
W-28
W-198
1*D23
7*D13
215
170
1*D14
W-103
92
35
35
2170
A - A
35
35
W-15
7*D13
B - B
92
379
1*D14
W-103
1961
C - C
150
75
75
STD GA
M16 BOLT
(FULLY PRETENSIONED, U.N.O.)
ANGLE PER PLAN & ELEV.
PL w/ 18x40 LSH
35
IPE OR ANGLE POST PER PLAN & ELEV.

Add the weld details for this connection.

The connection is not matching with the design reference as shown below.

MATERIAL LIST FOR ASSEMBLY MK'DFR-1

Mark	Profile	GRADE	No.	Length	Area	Weight
W-199	L100*10	S235JR	1	1135	0.44	17.11
W-15	L70*7	S235JR	1	1275	0.35	9.41
W-28	PIPE2SCH40	S355JR	1	25	0.01	0.13
W-29	PL25*10	S355JR	1	98	0.01	0.19
W-103	PL10*150	S355JR	2	150	0.05	1.77
W-198	L70*7	S235JR	1	1275	0.35	9.41
W-200	IPE140	S355JR	1	2340	1.29	30.13
W-201	IPE140	S355JR	1	2340	1.29	30.13
W-216	PL20*280	S355JR	2	280	0.18	12.31
				Total	4.19	124.64

1 *REQUIRED AS DRAWN MARKED* FR-1

6 October Monorail
Engineering Unit
Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority

Hill International
Consultant

ORASCOM CONSTRUCTION
The Arab Contractors
BOMBARDIER
Main Contractor

INNOVA TRANSPORTATION
Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS
C	07.05.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
B	22.04.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
A	22.02.2023	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI

DRAWING TITLE
6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
FRAME : FR-1

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
9 3 M	0 4 7 3	A C C	6 0 L 0 0	D W G	5 0 0 5 8	C

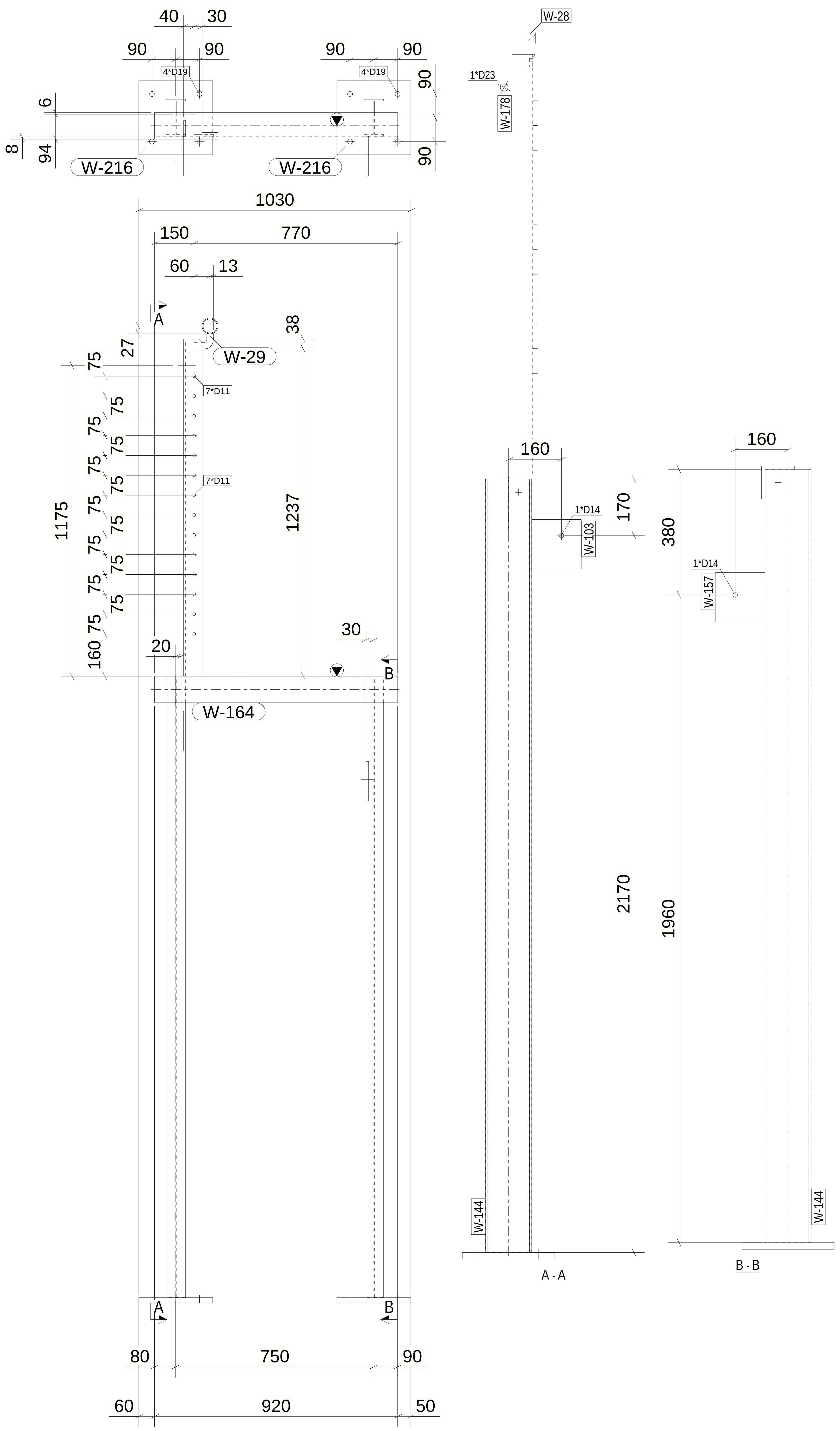
Tekla Structures

Same comments as
93M-0473-ACC-6OL00-DWG-50058-C.

REVIEWED WITH
COMMENT
MONORAILS PROJECT

MATERIAL LIST FOR ASSEMBLY MK'DFR-2

Mark	Profile	GRADE	No.	Length	Area	Weight
W-164	L100*10	S235JR	1	920	0.36	13.87
W-28	PIPE2SCH40	S355JR	1	25	0.01	0.13
W-29	PL25*10	S355JR	1	98	0.01	0.19
W-103	PL10*150	S355JR	1	150	0.05	1.77
W-144	IPE140	S355JR	2	2340	1.29	30.13
W-157	PL10*150	S355JR	1	150	0.05	1.77
W-178	L70*7	S235JR	1	1275	0.35	9.41
W-216	PL20*280	S355JR	2	280	0.18	12.31
				Total	3.76	111.99


40
30
90
90
90
90
4*D19
4*D19
6
8
94
90
90
W-216
W-216
W-28
1*D23
W-178
1030
150
770
60
13
A
38
27
W-29
7*D11
7*D11
75
1175
1237
160
20
30
B
W-164
160
1*D14
W-103
170
380
160
1*D14
W-157
2170
1960
W-144
W-144
A - A
B - B
A
B
80
750
90
60
920
50

6 October Monorail
Engineering Unit
Valid For Construction

1 *REQUIRED AS DRAWN MARKED* FR-2

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority | Hill International Consultant | Main Contractor | Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS
C	07.05.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
B	22.04.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
A	22.02.2023	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI

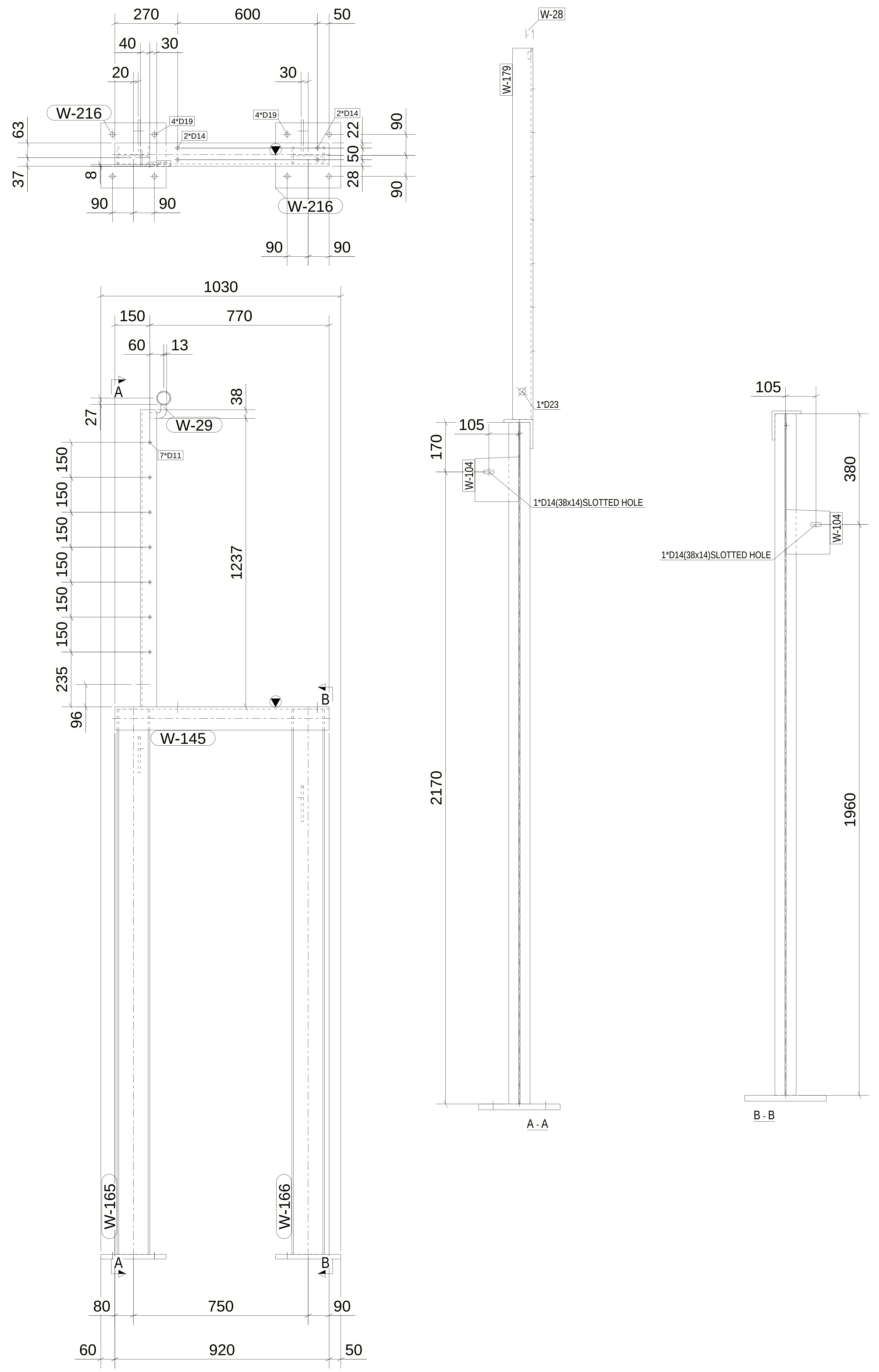
DRAWING TITLE
6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
FRAME : FR-2

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
93M	0473	ACC	60L00	DWG	50059	C

Tekla Structures

Same comments as
93M-0473-ACC-6OL00-DWG-50058-C.

REVIEWED WITH
COMMENT
MONORAILS PROJECT


270
600
50
40
30
20
30
W-216
4*D19
2*D14
4*D19
2*D14
63
37
8
90
90
W-216
90
90
22
50
28
90
90
W-28
W-179
1030
150
770
60
13
A
38
27
W-29
7*D11
150
150
150
150
150
150
1237
235
96
B
W-145
1*D23
105
170
W-104
1*D14(38x14)SLOTTED HOLE
2170
A - A
105
380
W-104
1*D14(38x14)SLOTTED HOLE
1960
B - B
W-165
W-166
A
B
80
750
90
60
920
50

MATERIAL LIST FOR ASSEMBLY MK'DFR-3

Mark	Profile	GRADE	No.	Length	Area	Weight
W-145	L100*10	S235JR	1	920	0.36	13.87
W-28	PIPE2SCH40	S355JR	1	25	0.01	0.13
W-29	PL25*10	S355JR	1	98	0.01	0.19
W-104	PL10*150	S355JR	2	154	0.05	1.77
W-165	IPE140	S355JR	1	2340	1.29	30.13
W-166	IPE140	S355JR	1	2340	1.29	30.13
W-179	L70*7	S235JR	1	1275	0.35	9.41
W-216	PL20*280	S355JR	2	280	0.18	12.31
				Total	3.76	112.00

1 *REQUIRED AS DRAWN MARKED* FR-3

6 October Monorail
Engineering Unit
Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
3	
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority

Hill International
Consultant

Main Contractor

Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS
C	07.05.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
B	22.04.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
A	22.02.2023	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI

DRAWING TITLE

6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
FRAME : FR-3

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
93M	0473	ACC	60L00	DWG	50060	C

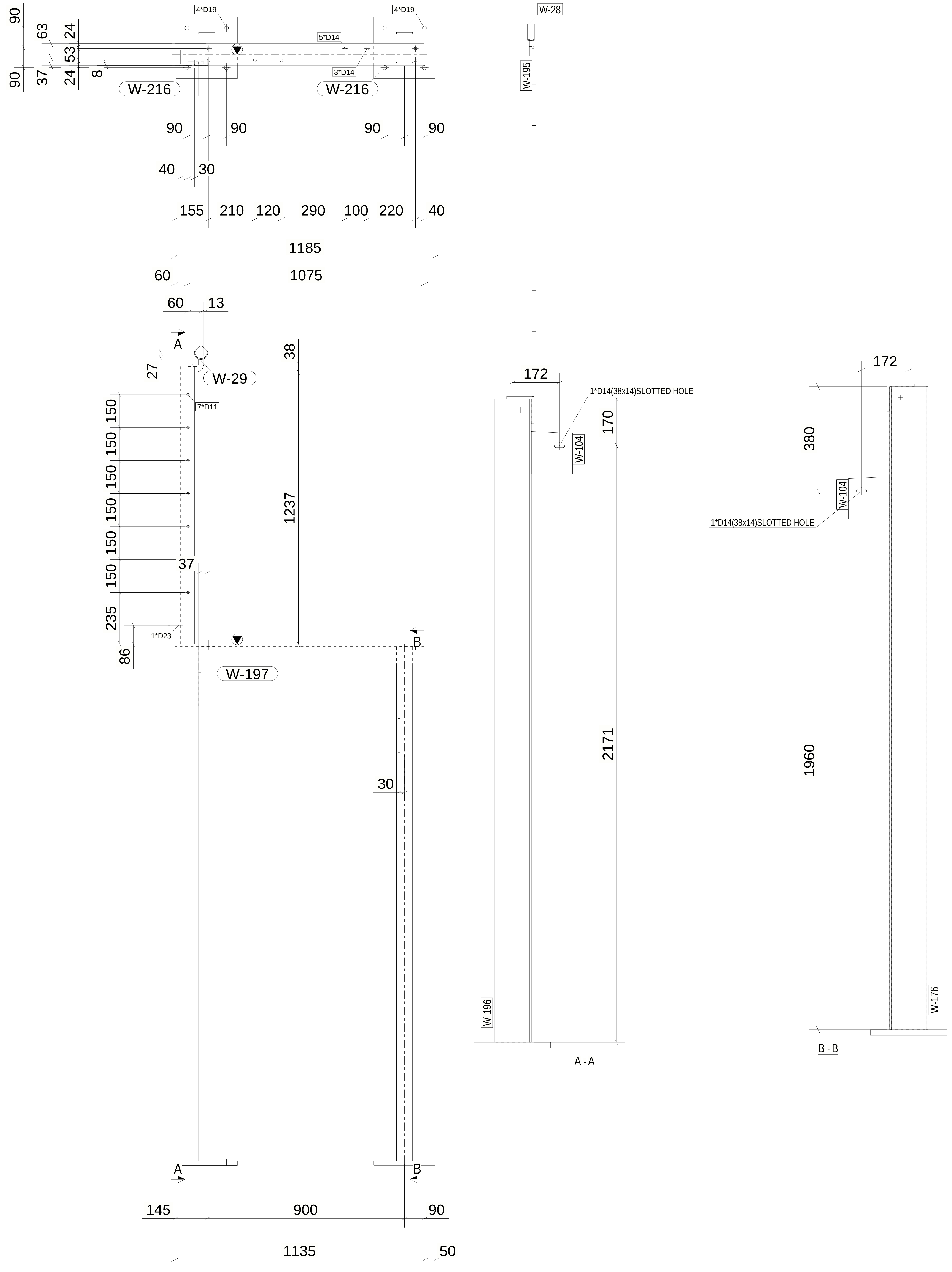
Tekla Structures

Same comments as
93M-0473-ACC-6OL00-DWG-50058-C.

**REVIEWED WITH
COMMENT
MONORAILS PROJECT**

MATERIAL LIST FOR ASSEMBLY MK'DFR-4

Mark	Profile	GRADE	No.	Length	Area	Weight
W-197	L100*10	S235JR	1	1135	0.44	17.11
W-28	PIPE2SCH40	S355JR	1	25	0.01	0.13
W-29	PL25*10	S355JR	1	98	0.01	0.19
W-104	PL10*150	S355JR	2	154	0.05	1.77
W-176	IPE140	S355JR	1	2340	1.29	30.13
W-195	L70*7	S235JR	1	1275	0.35	9.41
W-196	IPE140	S355JR	1	2341	1.29	30.13
W-216	PL20*280	S355JR	2	280	0.18	12.31
				Total	3.84	115.25


4*D19
4*D19
5*D14
3*D14
W-216
W-216
W-28
W-195
90
63
24
53
24
37
90
8
90
90
90
90
40
30
155
210
120
290
100
220
40
1185
60
1075
60
13
A
27
38
W-29
7*D11
150
150
150
150
150
150
1237
37
235
1*D23
86
B
W-197
30
A
B
145
900
90
1135
50
172
1*D14(38x14)SLOTTED HOLE
170
W-104
2171
W-196
A - A
172
380
W-104
1*D14(38x14)SLOTTED HOLE
1960
W-176
B - B

1 *REQUIRED AS DRAWN MARKED* FR-4

6 October Monorail
Engineering Unit
Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
3	
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority

Hill International

Consultant

Main Contractor

Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS
C	07.05.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
B	22.04.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
A	22.02.2023	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI

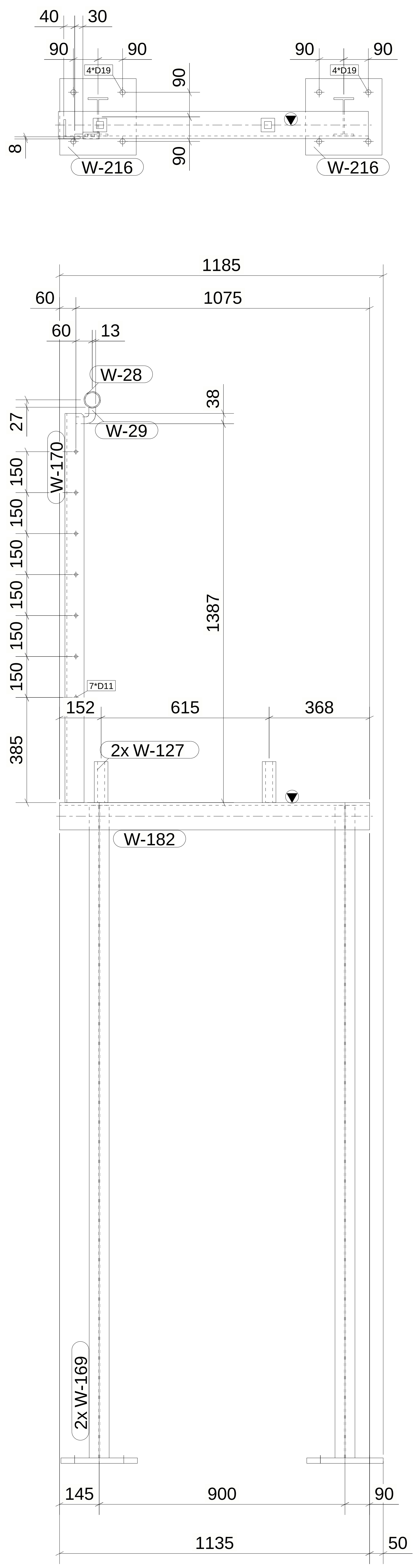
DRAWING TITLE
6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
FRAME : FR-4

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
93M	0473	ACC	60L00	DWG	50061	C

Tekla Structures

Same comments as
93M-0473-ACC-6OL00-DWG-50058-C.

REVIEWED WITH
COMMENT
MONORAILS PROJECT



1 *REQUIRED AS DRAWN MARKED* FR-5

MATERIAL LIST FOR ASSEMBLY MK'DFR-5

Mark	Profile	GRADE	No.	Length	Area	Weight
W-182	L100*10	S235JR	1	1135	0.44	17.11
W-28	PIPE2SCH40	S355JR	1	25	0.01	0.13
W-29	PL25*10	S355JR	1	98	0.01	0.19
W-127	SHS50*12	S355JR	2	150	0.03	2.15
W-169	IPE140	S355JR	2	2390	1.32	30.77
W-170	L70*7	S235JR	1	1425	0.39	10.52
W-216	PL20*280	S355JR	2	280	0.18	12.31
				Total	3.90	118.39

6 October Monorail
Engineering Unit
Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

الهيئة القومية للأنفاق
NATIONAL AUTHORITY FOR TUNNELS (NAT)
وزارة النقل
The Authority

HILL
Hill International
Consultant

ORASCOM CONSTRUCTION
The Arab Contractors
Osman Ahmed Osman & Co
BOMBARDIER
Main Contractor

INNOVA TRANSPORTATION
ENGINEERING SOLUTIONS
STRUCTURAL ENGINEERING
CONSTRUCTION ENGINEERING
©2018
Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS
C	07.05.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
B	22.04.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
A	22.02.2023	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI

DRAWING TITLE
6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
FRAME : FR-5

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
9 3 M	0 4 7 3	A C C	6 0 L 0 0	D W G	5 0 0 6 2	C

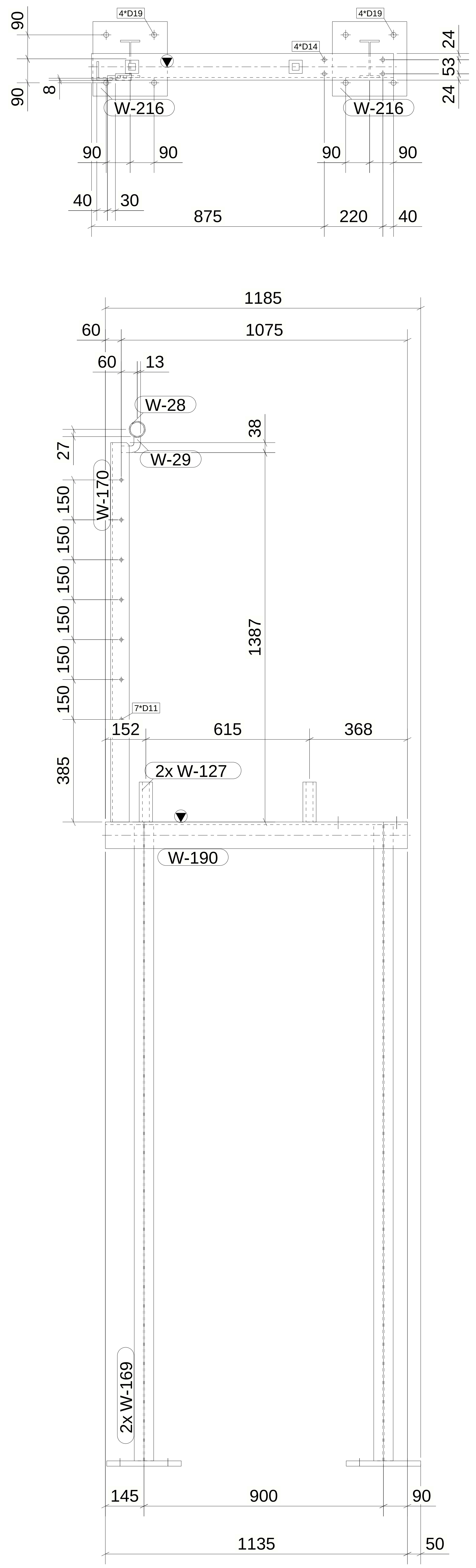
Tekla Structures

Same comments as
93M-0473-ACC-6OL00-DWG-50058-C.

REVIEWED WITH COMMENT MONORAILS PROJECT

MATERIAL LIST FOR ASSEMBLY MK'D**FR-6**

Mark	Profile	GRADE	No.	Length	Area	Weight
W-190	L100*10	S235JR	1	1135	0.44	17.11
W-28	PIPE2SCH40	S355JR	1	25	0.01	0.13
W-29	PL25*10	S355JR	1	98	0.01	0.19
W-127	SHS50*12	S355JR	2	150	0.03	2.15
W-169	IPE140	S355JR	2	2390	1.32	30.77
W-170	L70*7	S235JR	1	1425	0.39	10.52
W-216	PL20*280	S355JR	2	280	0.18	12.31
				Total	3.90	118.39



90
90
8
4*D19
4*D19
4*D14
24
53
24
W-216
W-216
90
90
90
90
40
30
875
220
40
1185
60
1075
60
13
W-28
38
W-29
27
W-170
150
150
150
150
150
150
1387
7*D11
152
615
368
385
2x W-127
W-190
2x W-169
145
900
90
1135
50

1 *REQUIRED AS DRAWN MARKED* FR-6

6 October Monorail Engineering Unit Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority — Consultant: Hill International — Main Contractor — Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS
C	07.05.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
B	22.04.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
A	22.02.2023	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI

DRAWING TITLE
6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
FRAME : FR-6

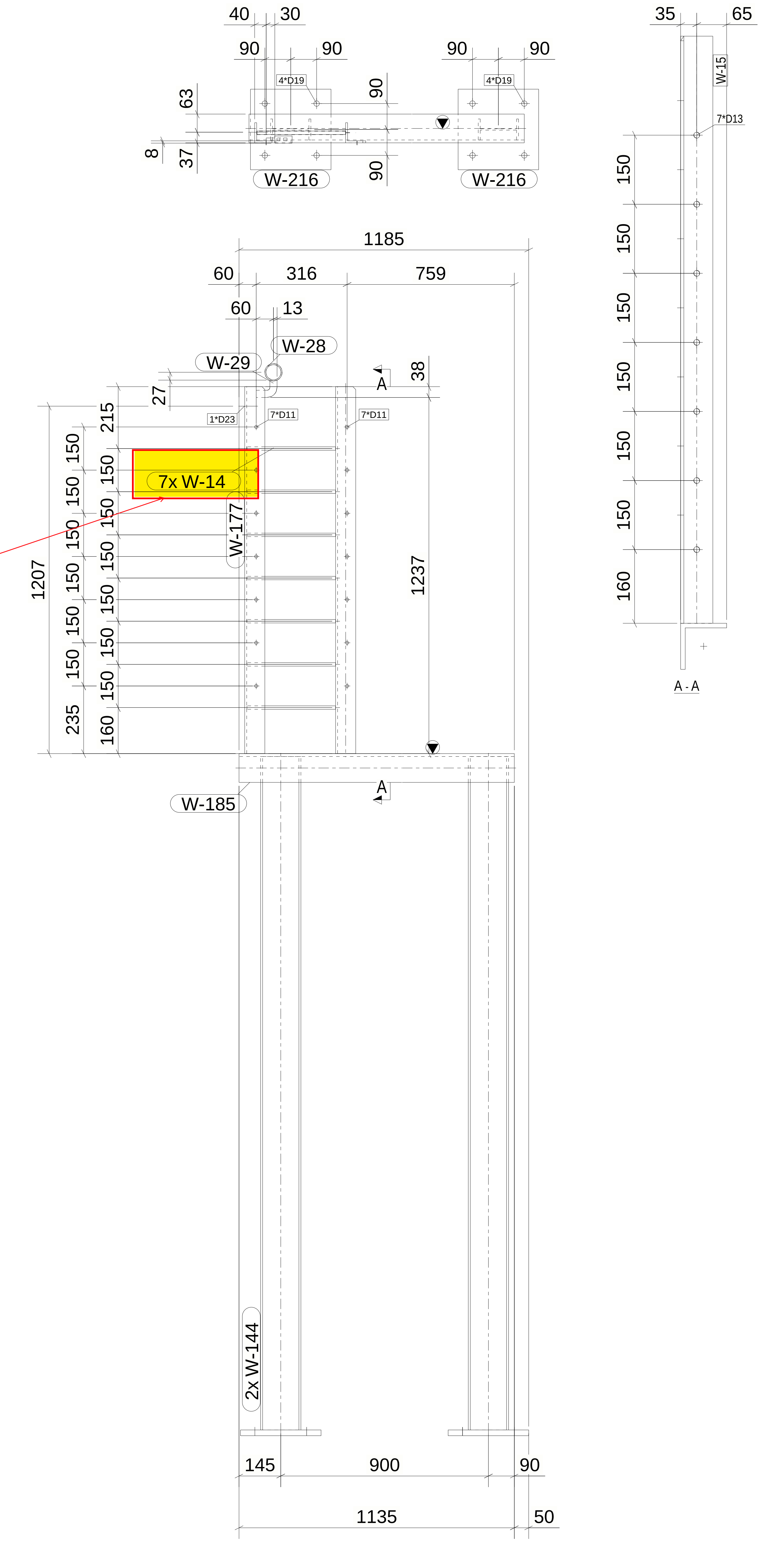
Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
93M	0473	ACC	60L00	DWG	50063	C

Tekla Structures

Same comments as
93M-0473-ACC-6OL00-DWG-50058-C.

REVIEWED WITH
COMMENT
MONORAILS PROJECT

This part mark is not shown in the
material list table.



40
30
90
90
90
90
4*D19
4*D19
63
90
8
37
90
W-216
W-216
35
65
W-15
7*D13
150
150
150
150
150
150
160
A - A
1185
60
316
759
60
13
W-28
W-29
A
38
27
215
1*D23
7*D11
7*D11
7x W-14
W-177
150
150
150
150
150
150
150
150
150
150
150
150
150
150
235
160
1207
1237
W-185
A
2x W-144
145
900
90
1135
50

MATERIAL LIST FOR ASSEMBLY MK'DFR-7						
Mark	Profile	GRADE	No.	Length	Area	Weight
W-185	L100*10	S235JR	1	1135	0.44	17.11
W-15	L70*7	S235JR	1	1275	0.35	9.41
W-28	PIPE2SCH40	S355JR	1	25	0.01	0.13
W-29	PL25*10	S355JR	1	98	0.01	0.19
W-144	IPE140	S355JR	2	2340	1.29	30.13
W-177	L70*7	S235JR	1	1275	0.35	9.41
W-216	PL20*280	S355JR	2	280	0.18	12.31
				Total	4.09	121.11

1 *REQUIRED AS DRAWN MARKED* FR-7

6 October Monorail
Engineering Unit
Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS	
1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

Hill International

The Authority

Consultant

Main Contractor

Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS
C	07.05.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
B	22.04.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
A	22.02.2023	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI

DRAWING TITLE

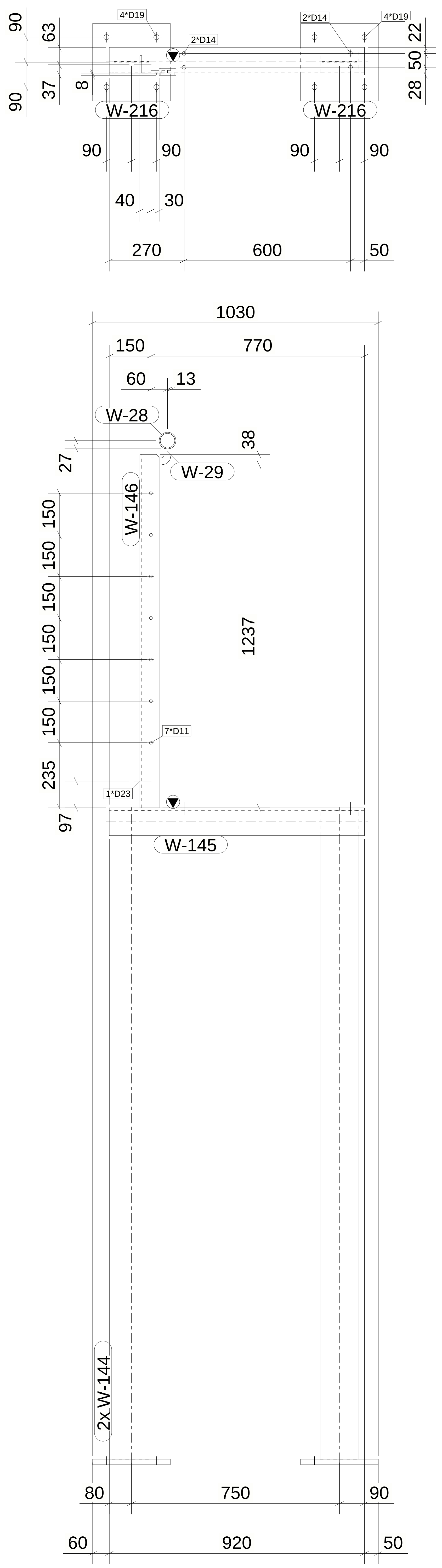
6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
FRAME : FR-7

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
93M	0473	ACC	60L00	DWG	50064	C

Tekla Structures

Same comments as
93M-0473-ACC-6OL00-DWG-50058-C.

**REVIEWED WITH COMMENT
MONORAILS PROJECT**


90
63
37
8
90
4*D19
2*D14
2*D14
4*D19
22
50
28
W-216
W-216
90
90
90
90
40
30
270
600
50
1030
150
770
60
13
W-28
38
27
W-29
W-146
150
150
150
150
150
150
1237
7*D11
235
1*D23
97
W-145
2x W-144
80
750
90
60
920
50

MATERIAL LIST FOR ASSEMBLY MK'DFR-8

Mark	Profile	GRADE	No.	Length	Area	Weight
W-145	L100*10	S235JR	1	920	0.36	13.87
W-28	PIPE2SCH40	S355JR	1	25	0.01	0.13
W-29	PL25*10	S355JR	1	98	0.01	0.19
W-144	IPE140	S355JR	2	2340	1.29	30.13
W-146	L70*7	S235JR	1	1275	0.35	9.41
W-216	PL20*280	S355JR	2	280	0.18	12.31
				Total	3.66	108.46

2 *REQUIRED AS DRAWN MARKED* FR-8

**6 October Monorail
Engineering Unit
Valid For Construction**

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority

Consultant

Main Contractor

Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS
C	07.05.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
B	22.04.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
A	22.02.2023	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI

DRAWING TITLE

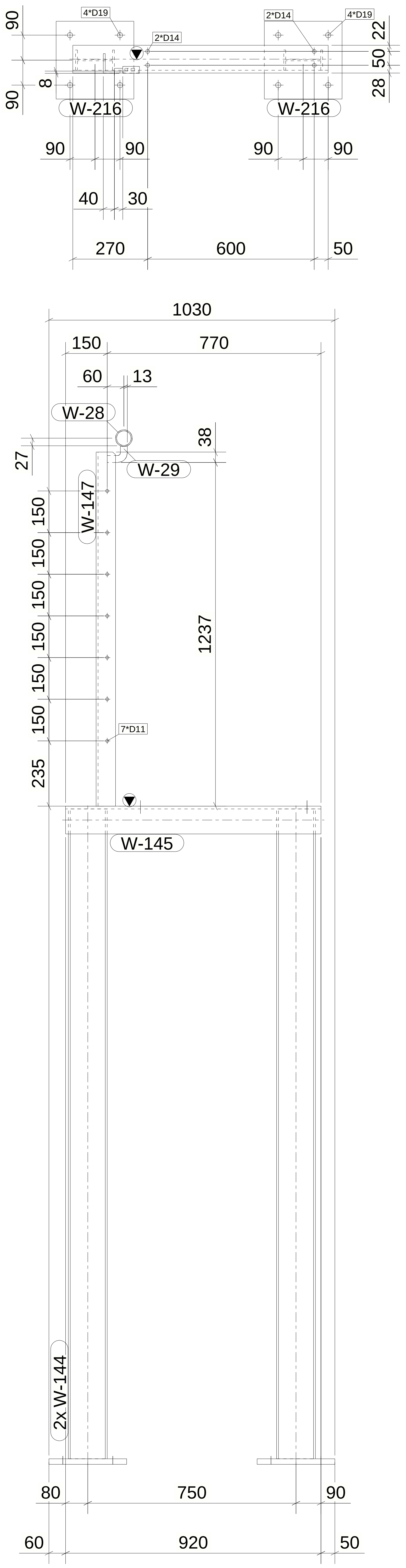
6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
FRAME : FR-8

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
93M	0473	ACC	60L00	DWG	50065	C

Tekla Structures

Same comments as
93M-0473-ACC-6OL00-DWG-50058-C.

REVIEWED WITH
COMMENT
MONORAILS PROJECT



4*D19
2*D14
2*D14
4*D19
90
90
8
22
50
28
W-216
W-216
90
90
90
90
40
30
270
600
50
1030
150
770
60
13
W-28
38
27
W-29
W-147
150
150
150
150
150
150
235
1237
7*D11
W-145
2x W-144
80
750
90
60
920
50

MATERIAL LIST FOR ASSEMBLY MK'DFR-9

Mark	Profile	GRADE	No.	Length	Area	Weight
W-145	L100*10	S235JR	1	920	0.36	13.87
W-28	PIPE2SCH40	S355JR	1	25	0.01	0.13
W-29	PL25*10	S355JR	1	98	0.01	0.19
W-144	IPE140	S355JR	2	2340	1.29	30.13
W-147	L70*7	S235JR	1	1275	0.35	9.41
W-216	PL20*280	S355JR	2	280	0.18	12.31
				Total	3.66	108.46

7 *REQUIRED AS DRAWN MARKED* FR-9

6 October Monorail
Engineering Unit
Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority

Hill International
Consultant

ORASCOM CONSTRUCTION
The Arab Contractors
BOMBARDIER
Main Contractor

INNOVA TRANSPORTATION
Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS
C	07.05.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
B	22.04.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
A	22.02.2023	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI

DRAWING TITLE

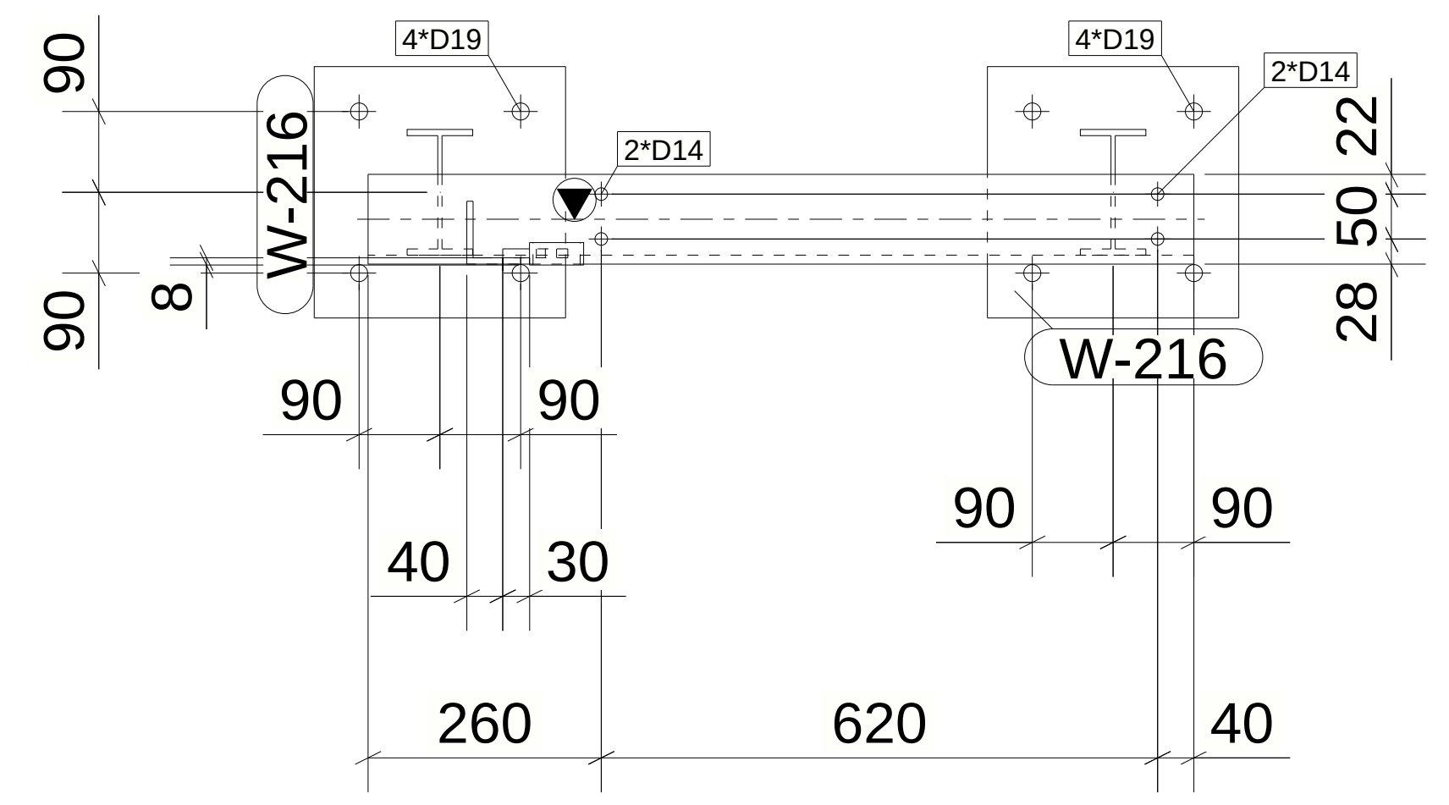
6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
FRAME : FR-9

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
93M	0473	ACC	60L00	DWG	50066	C

Tekla Structures

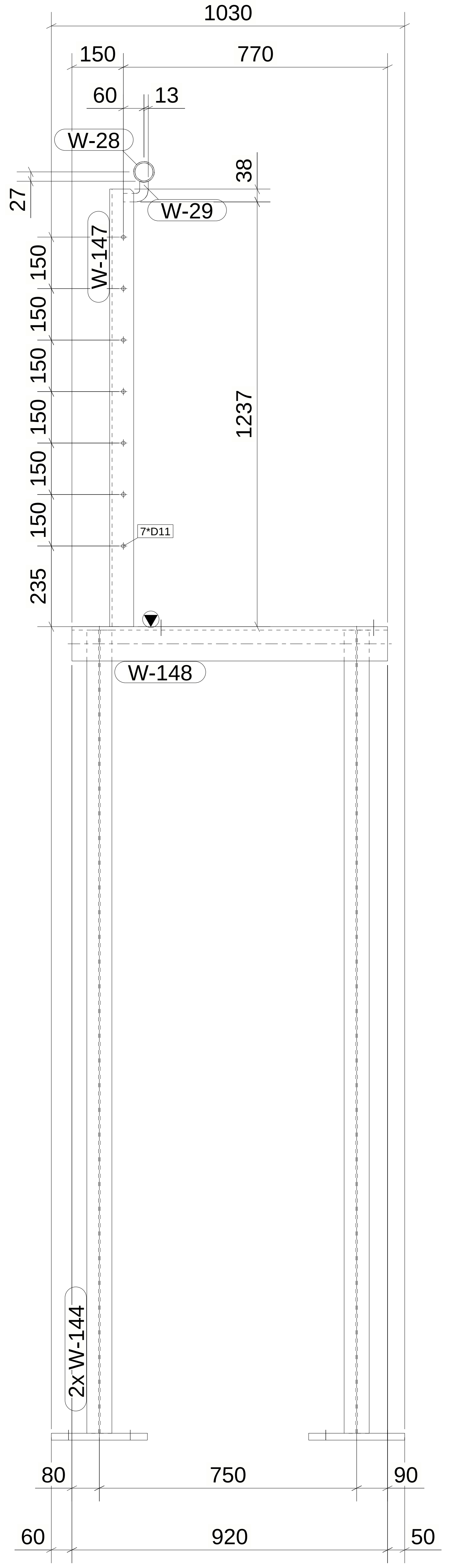
Same comments as
93M-0473-ACC-6OL00-DWG-50058-C.

REVIEWED WITH COMMENT
MONORAILS PROJECT


90
90
8
W-216
4*D19
2*D14
4*D19
2*D14
22
50
28
W-216
90
90
40
30
90
90
260
620
40

MATERIAL LIST FOR ASSEMBLY MK'DFR-10

Mark	Profile	GRADE	No.	Length	Area	Weight
W-148	L100*10	S235JR	1	920	0.36	13.87
W-28	PIPE2SCH40	S355JR	1	25	0.01	0.13
W-29	PL25*10	S355JR	1	98	0.01	0.19
W-144	IPE140	S355JR	2	2340	1.29	30.13
W-147	L70*7	S235JR	1	1275	0.35	9.41
W-216	PL20*280	S355JR	2	280	0.18	12.31
				Total	3.66	108.46


1030
150
770
60
13
W-28
27
38
W-29
W-147
150
150
150
150
150
150
1237
7*D11
235
W-148
2x W-144
80
750
90
60
920
50

8 *REQUIRED AS DRAWN MARKED* FR-10

6 October Monorail
Engineering Unit
Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
3	
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority

Hill International
Consultant

Main Contractor

Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS
C	07.05.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
B	22.04.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
A	22.02.2023	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI

DRAWING TITLE

6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
FRAME : FR-10

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
93M	0473	ACC	60L00	DWG	50067	C

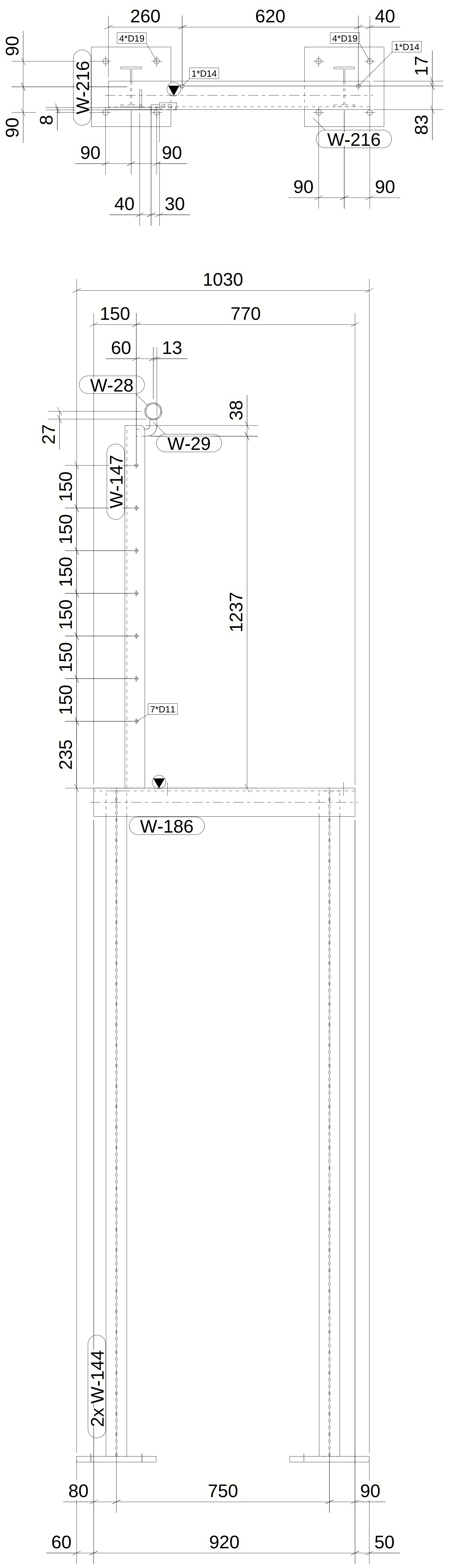
Tekla Structures

Same comments as
93M-0473-ACC-6OL00-DWG-50058-C.

REVIEWED WITH
COMMENT
MONORAILS PROJECT

MATERIAL LIST FOR ASSEMBLY MK'D FR-11

Mark	Profile	GRADE	No.	Length	Area	Weight
W-186	L100*10	S235JR	1	920	0.36	13.87
W-28	PIPE2SCH40	S355JR	1	25	0.01	0.13
W-29	PL25*10	S355JR	1	98	0.01	0.19
W-144	IPE140	S355JR	2	2340	1.29	30.13
W-147	L70*7	S235JR	1	1275	0.35	9.41
W-216	PL20*280	S355JR	2	280	0.18	12.31
				Total	3.66	108.46



260
620
40
90
4*D19
4*D19
1*D14
1*D14
17
W-216
8
90
83
W-216
90
90
40
30
90
90
1030
150
770
60
13
W-28
38
27
W-29
W-147
150
150
150
150
150
150
1237
7*D11
235
W-186
2x W-144
80
750
90
60
920
50

1 REQUIRED AS DRAWN MARKED FR-11

6 October Monorail
Engineering Unit
Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority

Hill International
Consultant

ORASCOM CONSTRUCTION
BOMBARDIER
Main Contractor

INNOVA
Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS
C	07.05.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
B	22.04.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
A	22.02.2023	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI

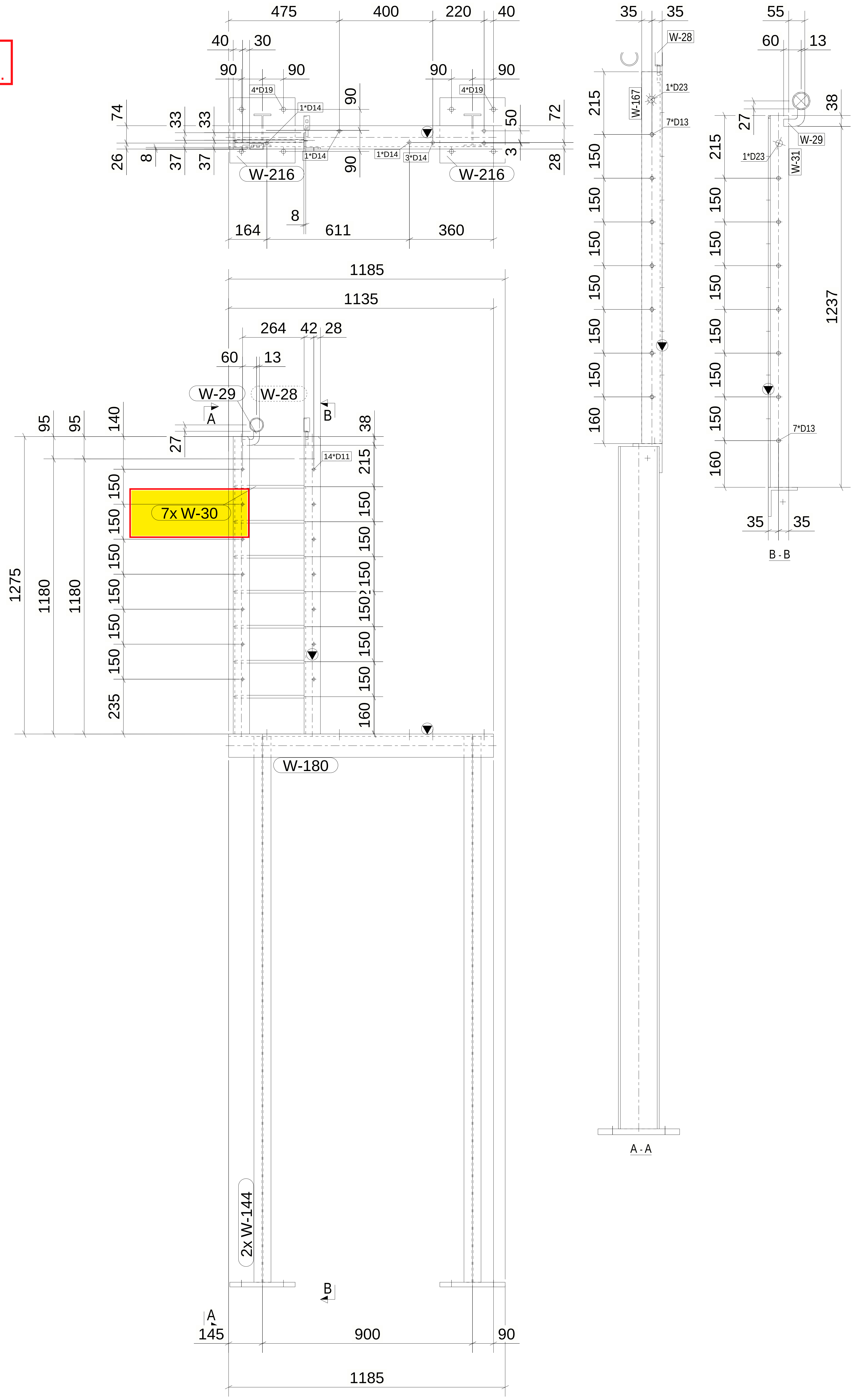
DRAWING TITLE
6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
FRAME : FR-11

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
9 3 M	0 4 7 3	A C C	6 0 L 0 0	D W G	5 0 0 6 8	C

Tekla Structures

Same comments as
93M-0473-ACC-6OL00-DWG-50058-C.

**REVIEWED WITH COMMENT
MONORAILS PROJECT**


475
400
220
40
40
30
90
90
90
90
4*D19
4*D19
1*D14
1*D14
1*D14
3*D14
74
33
33
26
8
37
37
90
90
72
50
3
28
W-216
W-216
8
164
611
360
1185
1135
264
42
28
60
13
W-29
W-28
A
B
27
95
95
140
38
14*D11
215
7x W-30
150
150
150
150
150
150
150
150
150
150
150
150
150
150
235
160
1275
1180
1180
W-180
2x W-144
B
A
145
900
90
1185
35
35
W-28
W-167
1*D23
7*D13
215
150
150
150
150
150
150
150
160
A - A
55
60
13
38
27
W-29
1*D23
W-31
215
150
150
150
150
150
150
150
160
1237
7*D13
35
35
B - B

1 *REQUIRED AS DRAWN MARKED* FR-12

MATERIAL LIST FOR ASSEMBLY MK'DFR-12

Mark	Profile	GRADE	No.	Length	Area	Weight
W-180	L100*10	S235JR	1	1135	0.44	17.11
W-28	PIPE2SCH40	S355JR	2	25	0.01	0.13
W-29	PL25*10	S355JR	2	98	0.01	0.19
W-31	L70*7	S235JR	1	1275	0.35	9.41
W-144	IPE140	S355JR	2	2340	1.29	30.13
W-167	L70*7	S235JR	1	1275	0.35	9.41
W-216	PL20*280	S355JR	2	280	0.18	12.31
				Total	4.10	121.42

6 October Monorail
Engineering Unit
Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority
Hill International
Consultant
Main Contractor
Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS
C	07.05.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
B	22.04.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
A	22.02.2023	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI

DRAWING TITLE

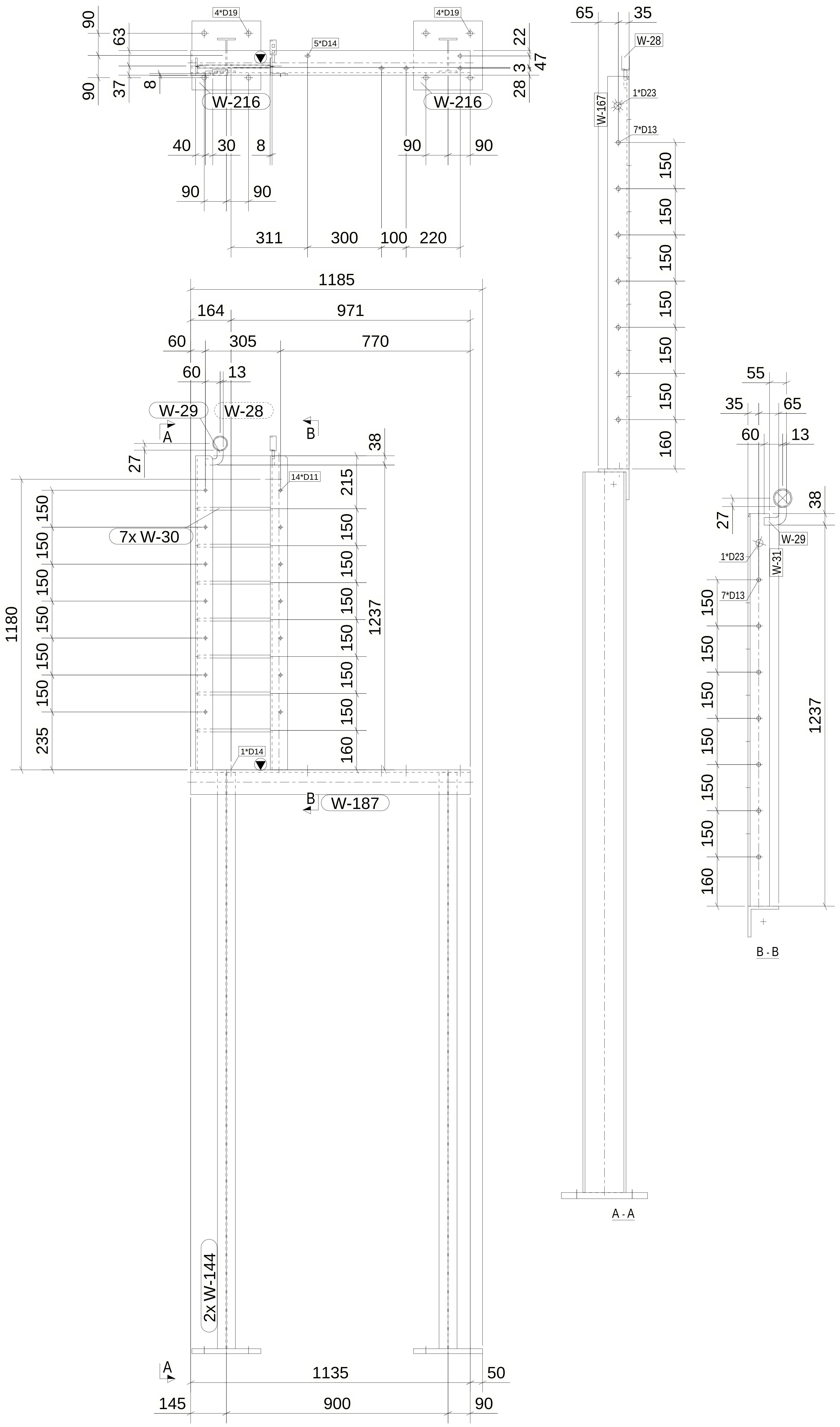
6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
FRAME : FR-12

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
93M	0473	ACC	60L00	DWG	50069	C

Tekla Structures

Same comments as
93M-0473-ACC-6OL00-DWG-50058-C.

REVIEWED WITH
COMMENT
MONORAILS PROJECT


4*D19
4*D19
5*D14
W-216
W-216
90
63
37
90
8
22
3
28
47
40
30
8
90
90
90
90
311
300
100
220
1185
164
971
60
305
770
60
13
W-29
W-28
A
B
27
38
14*D11
7x W-30
1180
150
150
150
150
150
150
235
215
150
150
150
150
150
150
160
1237
1*D14
B
W-187
2x W-144
A
1135
50
145
900
90
65
35
W-28
W-167
1*D23
7*D13
150
150
150
150
150
150
160
A - A
55
35
65
60
13
38
27
W-29
1*D23
W-31
7*D13
150
150
150
150
150
150
160
1237
B - B

MATERIAL LIST FOR ASSEMBLY MK'DFR-13						
Mark	Profile	GRADE	No.	Length	Area	Weight
W-187	L100*10	S235JR	1	1135	0.44	17.11
W-28	PIPE2SCH40	S355JR	2	25	0.01	0.13
W-29	PL25*10	S355JR	2	98	0.01	0.19
W-31	L70*7	S235JR	1	1275	0.35	9.41
W-144	IPE140	S355JR	2	2340	1.29	30.13
W-167	L70*7	S235JR	1	1275	0.35	9.41
W-216	PL20*280	S355JR	2	280	0.18	12.31
				Total	4.10	121.42

6 October Monorail
Engineering Unit
Valid For Construction

1 *REQUIRED AS DRAWN MARKED* FR-13

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority

Hill International
Consultant

Main Contractor

Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS
C	07.05.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
B	22.04.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
A	22.02.2023	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI

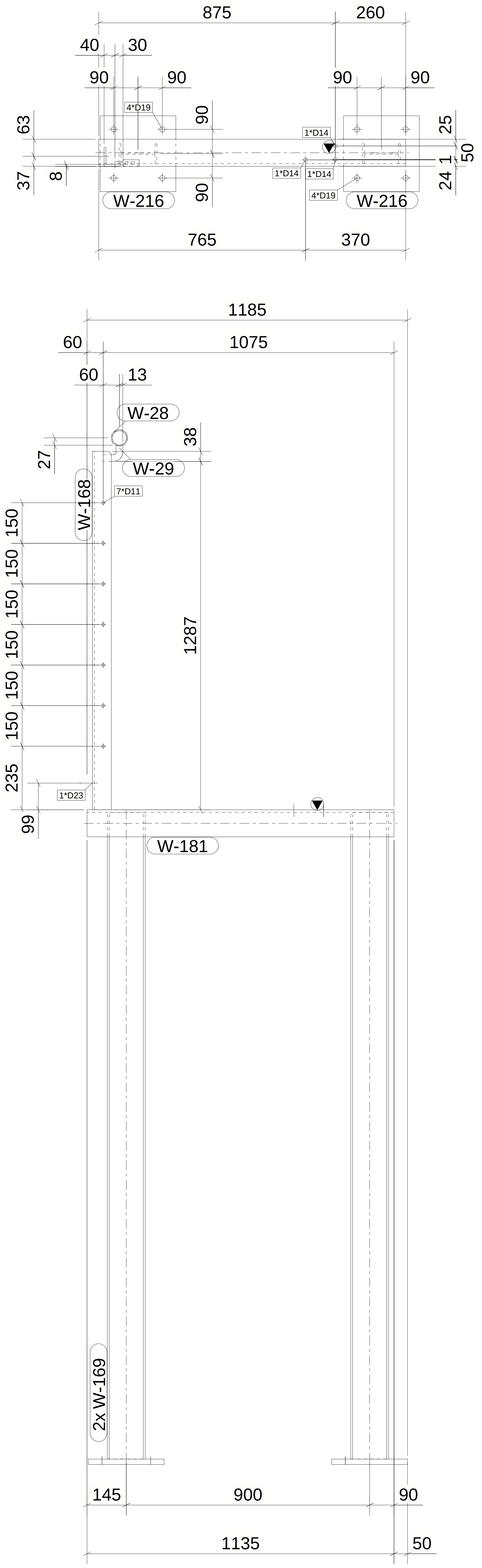
DRAWING TITLE
6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
FRAME : FR-13

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
93M	0473	ACC	60L00	DWG	50070	C

Tekla Structures

Same comments as
93M-0473-ACC-6OL00-DWG-50058-C.

REVIEWED WITH COMMENT MONORAILS PROJECT


875
260
40
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90
90
90
63
37
8
4*D19
90
90
1*D14
1*D14
1*D14
4*D19
25
1
50
24
W-216
W-216
765
370
1185
60
1075
60
13
W-28
27
38
W-29
7*D11
W-168
150
150
150
150
150
150
235
1287
1*D23
99
W-181
2x W-169
145
900
90
1135
50

1 *REQUIRED AS DRAWN MARKED* FR-14

MATERIAL LIST FOR ASSEMBLY MK'D FR-14						
Mark	Profile	GRADE	No.	Length	Area	Weight
W-181	L100*10	S235JR	1	1135	0.44	17.11
W-28	PIPE2SCH40	S355JR	1	25	0.01	0.13
W-29	PL25*10	S355JR	1	98	0.01	0.19
W-168	L70*7	S235JR	1	1325	0.36	9.78
W-169	IPE140	S355JR	2	2390	1.32	30.77
W-216	PL20*280	S355JR	2	280	0.18	12.31
				Total	3.81	113.35

6 October Monorail Engineering Unit Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority
Hill International
Consultant
Main Contractor
Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS
C	07.05.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
B	22.04.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
A	22.02.2023	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI

DRAWING TITLE
6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
FRAME : FR-14

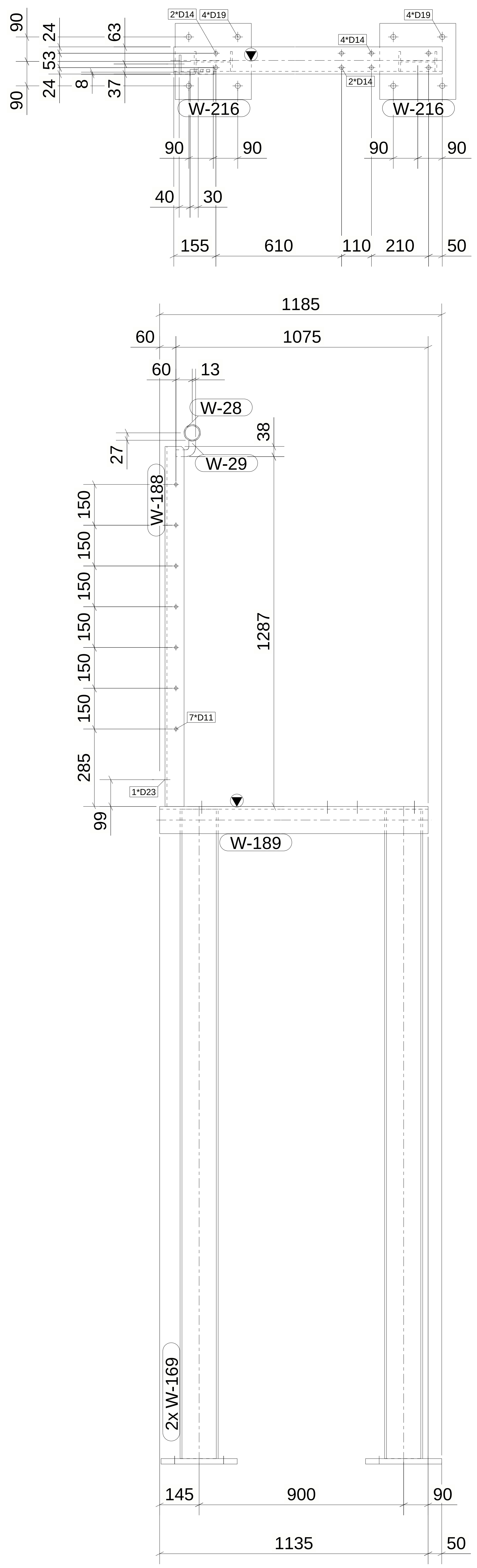
Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
93M	0473	ACC	60L00	DWG	50071	C

Tekla Structures

Same comments as
93M-0473-ACC-6OL00-DWG-50058-C.

REVIEWED WITH COMMENT
MONORAILS PROJECT

MATERIAL LIST FOR ASSEMBLY MK'D FR-15						
Mark	Profile	GRADE	No.	Length	Area	Weight
W-189	L100*10	S235JR	1	1135	0.44	17.11
W-28	PIPE2SCH40	S355JR	1	25	0.01	0.13
W-29	PL25*10	S355JR	1	98	0.01	0.19
W-169	IPE140	S355JR	2	2390	1.32	30.77
W-188	L70*7	S235JR	1	1325	0.36	9.78
W-216	PL20*280	S355JR	2	280	0.18	12.31
				Total	3.81	113.35



90
24
53
8
24
90
63
37
2*D14
4*D19
4*D14
2*D14
4*D19
W-216
W-216
90
90
90
90
40
30
155
610
110
210
50
1185
60
1075
60
13
W-28
27
38
W-29
W-188
150
150
150
150
150
150
1287
7*D11
285
1*D23
99
W-189
2x W-169
145
900
90
1135
50

1 *REQUIRED AS DRAWN MARKED* FR-15

6 October Monorail
Engineering Unit
Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS	
1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority

Hill International
Consultant

ORASCOM CONSTRUCTION
BOMBARDIER
Main Contractor

INNOVA
Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS
C	07.05.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
B	22.04.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
A	22.02.2023	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI

DRAWING TITLE

6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
FRAME : FR-15

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
93M	0473	ACC	60L00	DWG	50072	C

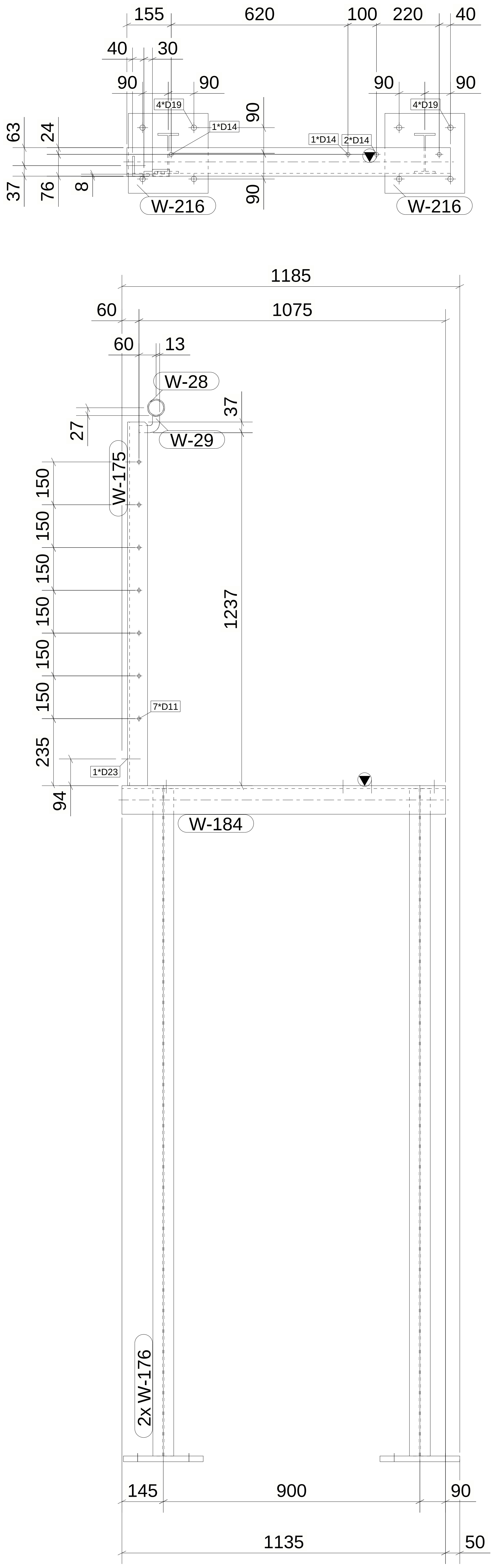
Tekla Structures

Same comments as
93M-0473-ACC-6OL00-DWG-50058-C.

REVIEWED WITH
COMMENT
MONORAILS PROJECT

MATERIAL LIST FOR ASSEMBLY MK'DFR-16

Mark	Profile	GRADE	No.	Length	Area	Weight
W-184	L100*10	S235JR	1	1135	0.44	17.11
W-28	PIPE2SCH40	S355JR	1	25	0.01	0.13
W-29	PL25*10	S355JR	1	98	0.01	0.19
W-175	L70*7	S235JR	1	1275	0.35	9.41
W-176	IPE140	S355JR	2	2340	1.29	30.13
W-216	PL20*280	S355JR	2	280	0.18	12.31
				Total	3.74	111.70


155
620
100
220
40
40
30
90
90
90
90
4*D19
1*D14
1*D14
2*D14
4*D19
90
90
63
24
37
76
8
W-216
W-216
1185
60
1075
60
13
W-28
27
37
W-29
W-175
150
150
150
150
150
150
235
94
1237
7*D11
1*D23
W-184
2x W-176
145
900
90
1135
50

1 *REQUIRED AS DRAWN MARKED* FR-16

6 October Monorail
Engineering Unit
Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority
Hill International
Consultant
Main Contractor
Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS
C	07.05.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
B	22.04.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
A	22.02.2023	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI

DRAWING TITLE
6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
FRAME : FR-16

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
9 3 M	0 4 7 3	A C C	6 0 L 0 0	D W G	5 0 0 7 3	C

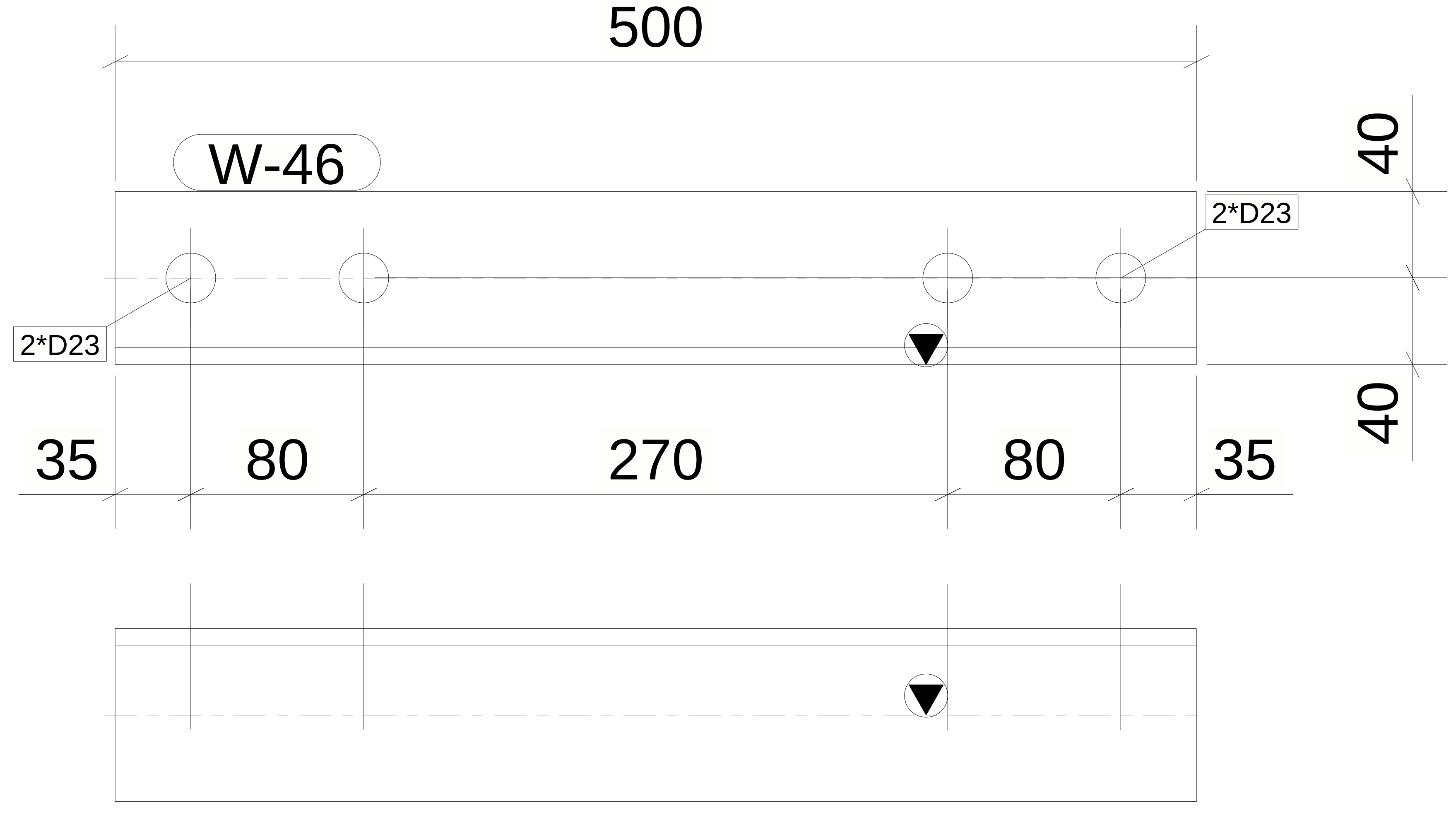
Tekla Structures

Drawing shall be updated accordingto the comments on the GA drawing.

REVIEWED WITH
COMMENT
MONORAILS PROJECT

MATERIAL LIST FOR ASSEMBLY MK'DHB-1

Mark	Profile	GRADE	No.	Length	Area	Weight
W-46	L80*8	S235JR	1	500	0.16	4.83
				Total	0.16	4.83



5 *REQUIRED AS DRAWN MARKED* HB-1

6 October Monorail
Engineering Unit
Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority
Hill International
Consultant
Main Contractor
Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS

DRAWING TITLE

6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
VERTBRACE : HB-1

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
9 3 M	0 4 7 3	A C C	6 0 L 0 0	D W G	5 0 0 7 4	C

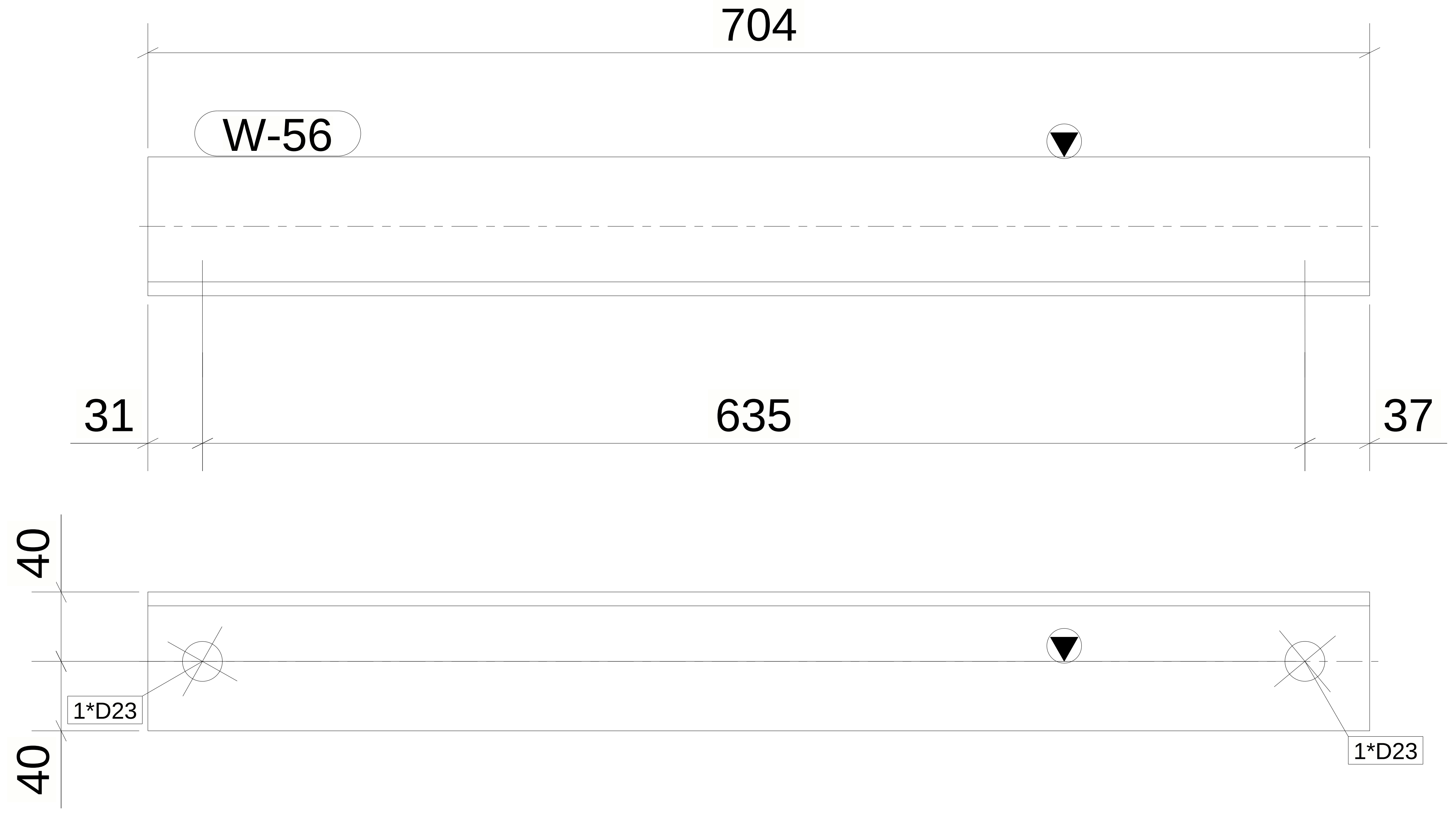
Tekla Structures

Drawing shall be updated accordingto the comments on the GA drawing.

REVIEWED WITH COMMENT
MONORAILS PROJECT

MATERIAL LIST FOR ASSEMBLY MK'DHB-2

Mark	Profile	GRADE	No.	Length	Area	Weight
W-56	L80*8	S235JR	1	704	0.22	6.80
				Total	0.22	6.80



1 *REQUIRED AS DRAWN MARKED* HB-2

6 October Monorail
Engineering Unit
Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority
Consultant
Main Contractor
Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS

DRAWING TITLE
6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
VERTBRACE : HB-2

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
9 3 M	0 4 7 3	A C C	6 0 L 0 0	D W G	5 0 0 7 5	C

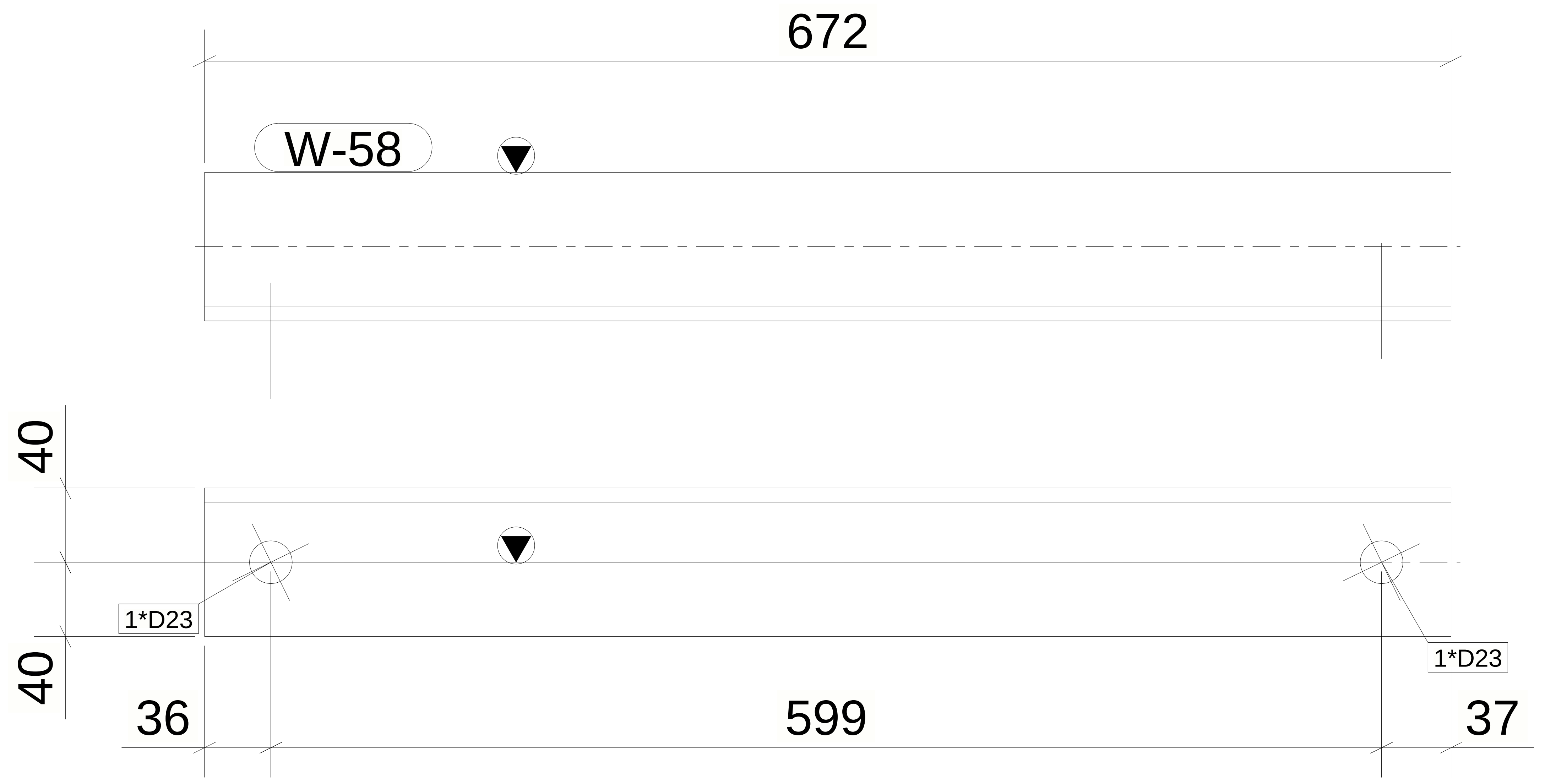
Tekla Structures

Drawing shall be updated accordingto the comments on the GA drawing.

REVIEWED WITH COMMENT
MONORAILS PROJECT

MATERIAL LIST FOR ASSEMBLY MK'DHB-3

Mark	Profile	GRADE	No.	Length	Area	Weight
W-58	L80*8	S235JR	1	672	0.21	6.49
				Total	0.21	6.49



1 *REQUIRED AS DRAWN MARKED* HB-3

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2.WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3.ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority
Consultant
Main Contractor
Structural Designer

KEY PLAN:

6 October Monorail
Engineering Unit
Valid For Construction

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS

DRAWING TITLE
6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
VERTBRACE : HB-3

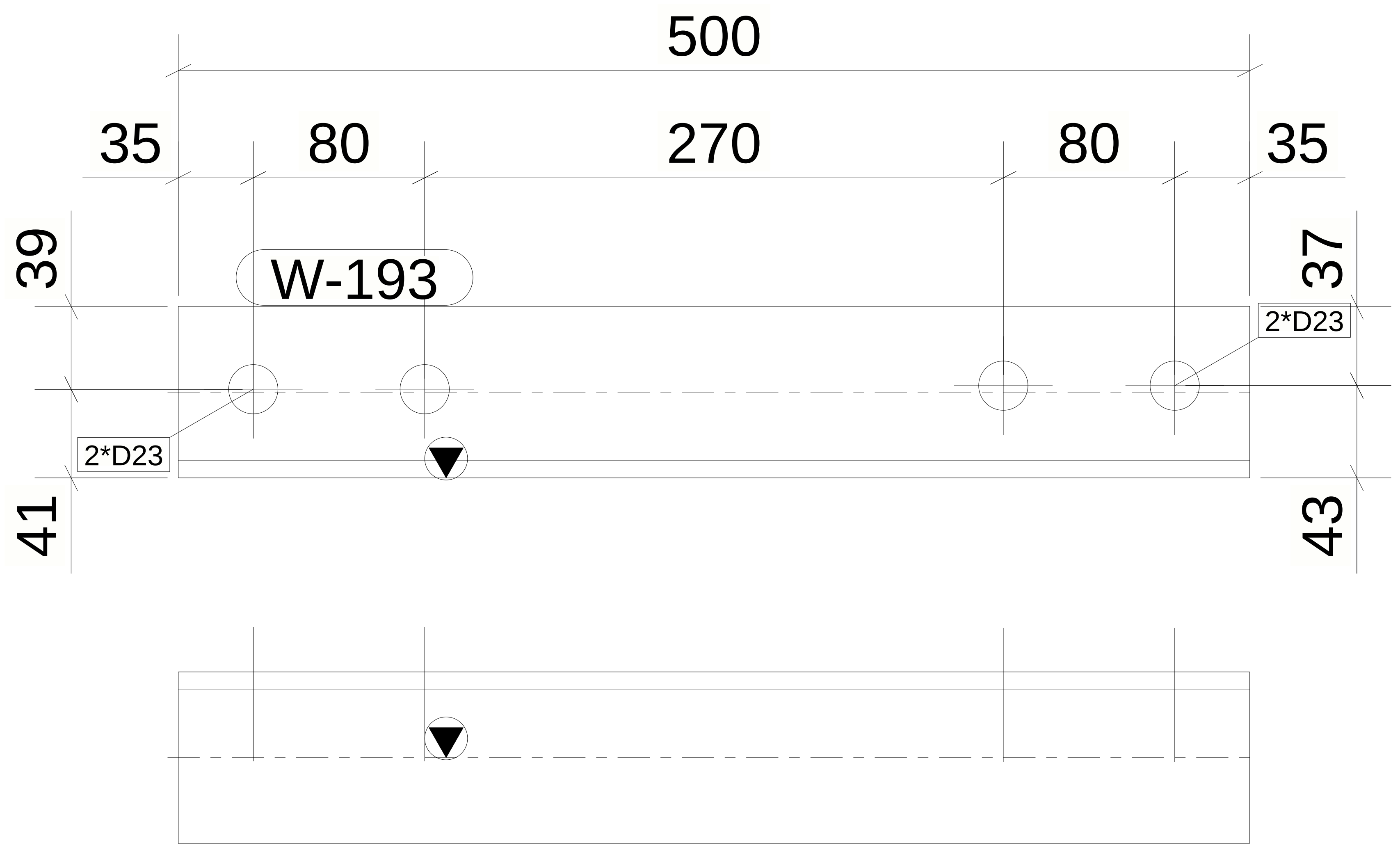
Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
93M	0473	ACC	60L00	DWG	50076	C

Tekla Structures

Drawing shall be updated accordingto the comments on the GA drawing.

REVIEWED WITH COMMENT MONORAILS PROJECT

MATERIAL LIST FOR ASSEMBLY MK'DHB-4						
Mark	Profile	GRADE	No.	Length	Area	Weight
W-193	L80*8	S235JR	1	500	0.16	4.83
				Total	0.16	4.83



1 *REQUIRED AS DRAWN MARKED* HB-4

6 October Monorail Engineering Unit Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority

Hill International

Consultant

Main Contractor

Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS

DRAWING TITLE

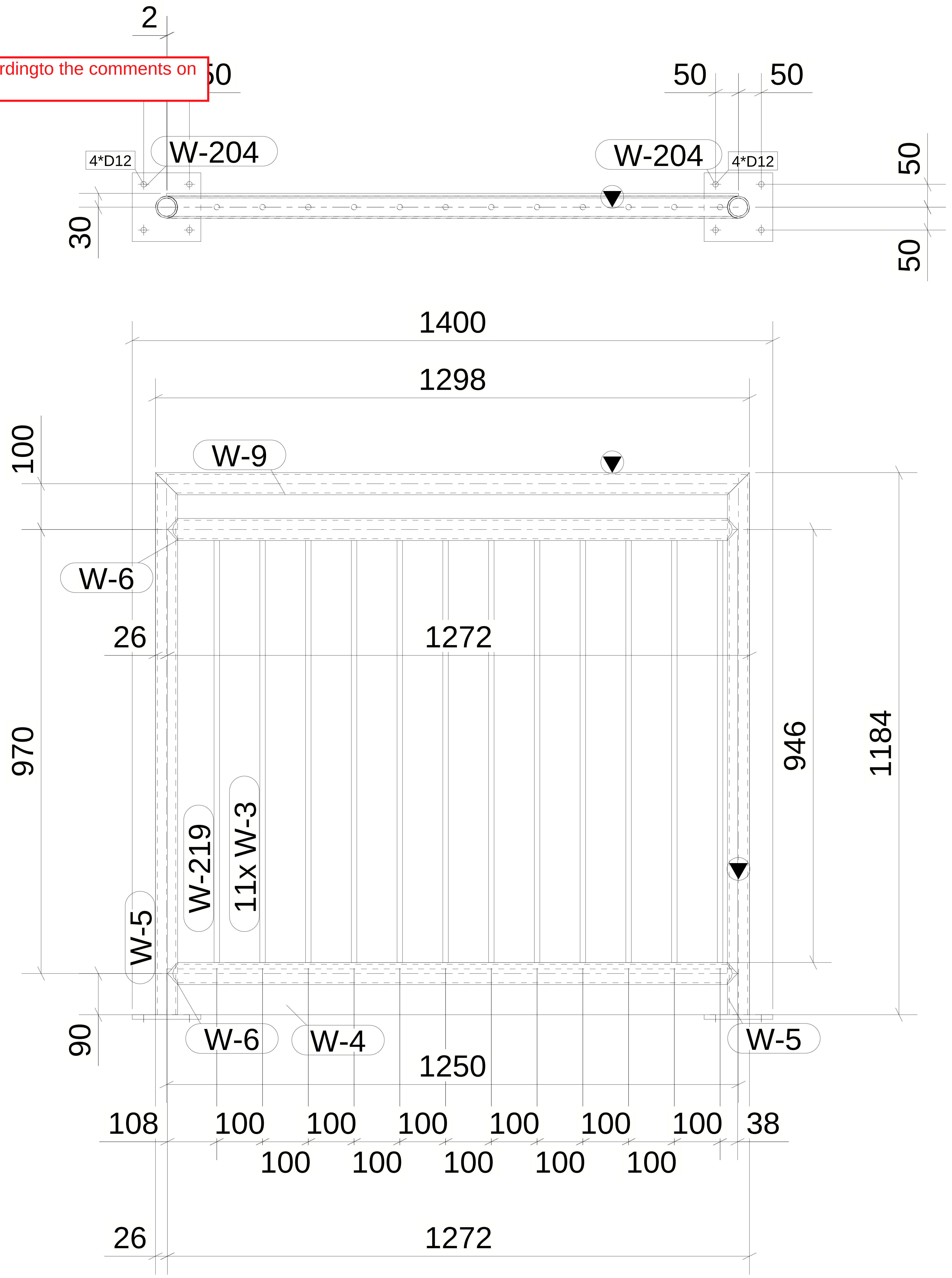
6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
VERTBRACE : HB-4

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
9 3 M	0 4 7 3	A C C	6 0 L 0 0	D W G	5 0 0 7 7	C

Tekla Structures

Drawing shall be updated accordingto the comments on the GA drawing.

REVIEWED WITH COMMENT
MONORAILS PROJECT



2
50
50
50
W-204
W-204
4*D12
4*D12
30
50
50
1400
1298
W-9
100
W-6
26
1272
970
946
1184
W-219
11x W-3
W-5
90
W-6
W-4
W-5
1250
108
100
100
100
100
100
100
38
100
100
100
100
100
26
1272

1 *REQUIRED AS DRAWN MARKED* HR-1

MATERIAL LIST FOR ASSEMBLY MK'DHR-1

Mark	Profile	GRADE	No.	Length	Area	Weight
W-9	CHS48.3*4.0	S355JR	1	1298	0.20	5.68
W-3	ROD12	S355JR	11	922	0.03	0.74
W-4	PL6*100	S355JR	1	1250	0.27	5.89
W-5	CHS48.3*4.0	S355JR	2	1184	0.18	5.18
W-6	CHS48.3*4.0	S355JR	2	1246	0.19	5.45
W-204	PL10*150	S355JR	2	150	0.05	1.77
W-219	ROD12	S355JR	1	922	0.03	0.74
				Total	1.71	45.19

6 October Monorail
Engineering Unit
Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority

Hill International
Consultant

Main Contractor

Structural Designer

KEY PLAN:

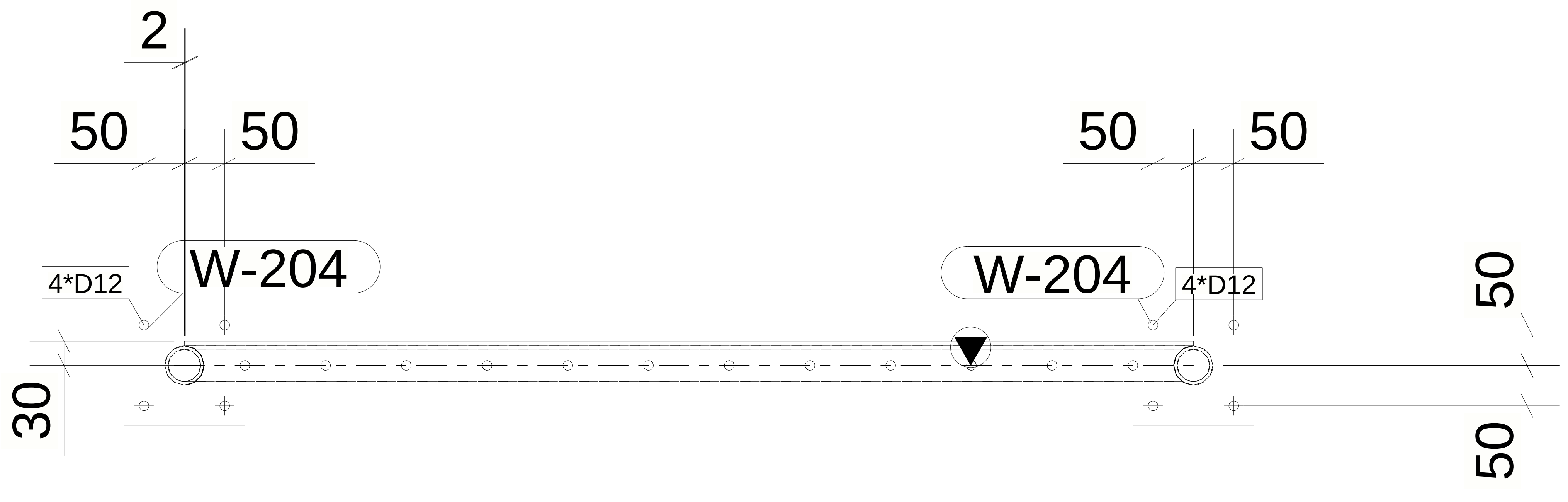
SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS

DRAWING TITLE
6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
RAILING : HR-1

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
93M	0473	ACC	60L00	DWG	50078	C

Tekla Structures

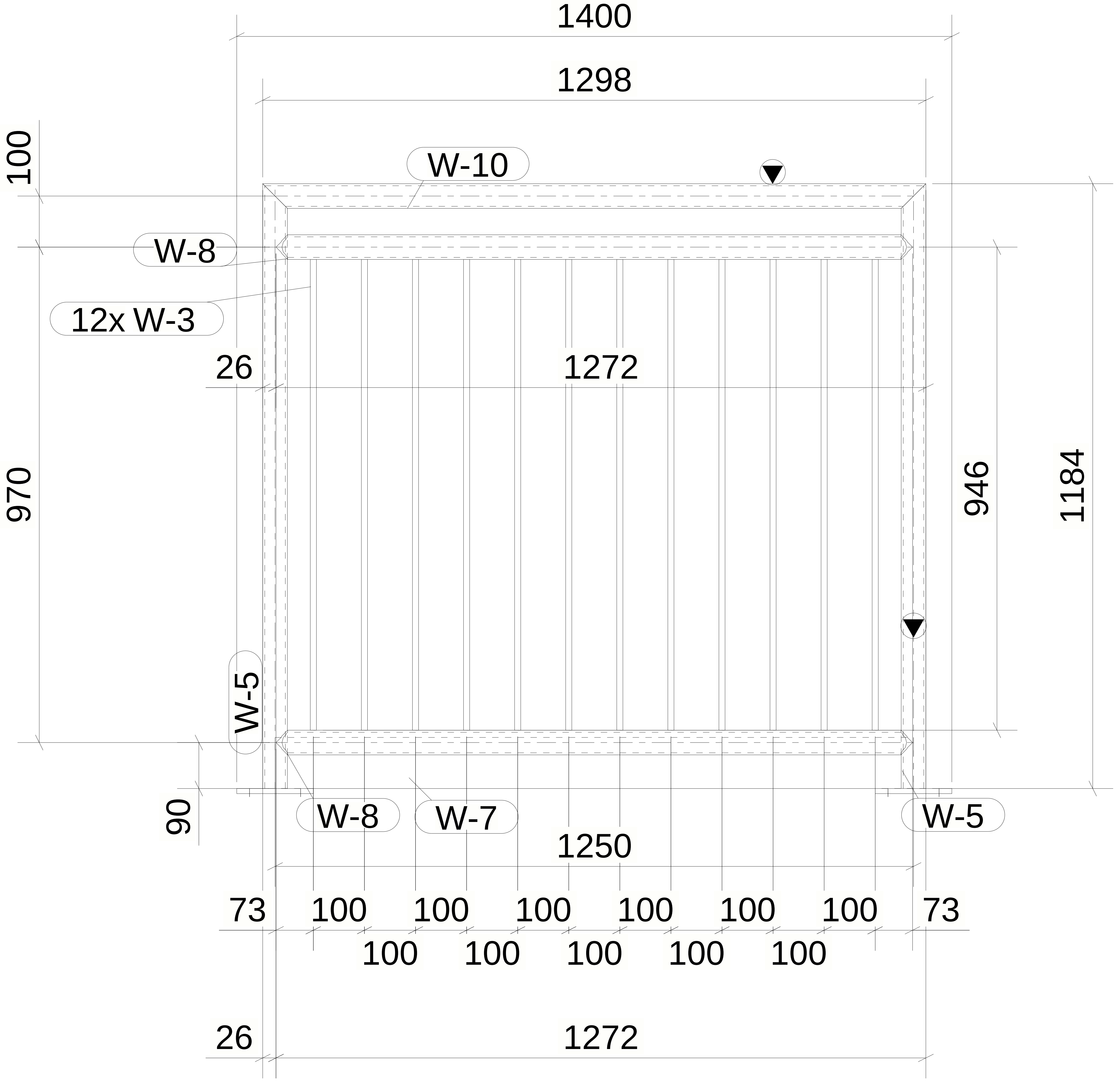

2
50
50
50
50
4*D12
W-204
W-204
4*D12
50
30
50

MATERIAL LIST FOR ASSEMBLY MK'DHR-2

Mark	Profile	GRADE	No.	Length	Area	Weight
W-10	CHS48.3*4.0	S355JR	1	1298	0.20	5.68
W-3	ROD12	S355JR	12	922	0.03	0.74
W-5	CHS48.3*4.0	S355JR	2	1184	0.18	5.18
W-7	PL6*100	S355JR	1	1250	0.27	5.89
W-8	CHS48.3*4.0	S355JR	2	1246	0.19	5.45
W-204	PL10*150	S355JR	2	150	0.05	1.77
				Total	1.71	45.19

Drawing shall be updated accordingto the comments on the GA drawing.

REVIEWED WITH COMMENT MONORAILS PROJECT


1400
1298
W-10
100
W-8
12x W-3
26
1272
970
946
1184
W-5
90
W-8
W-7
W-5
1250
73
100
100
100
100
100
100
73
100
100
100
100
100
26
1272

41 *REQUIRED AS DRAWN MARKED* HR-2

6 October Monorail
Engineering Unit
Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority

Hill International
Consultant

ORASCOM CONSTRUCTION
The Arab Contractors
BOMBARDIER
Main Contractor

INNOVA TRANSPORTATION
Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

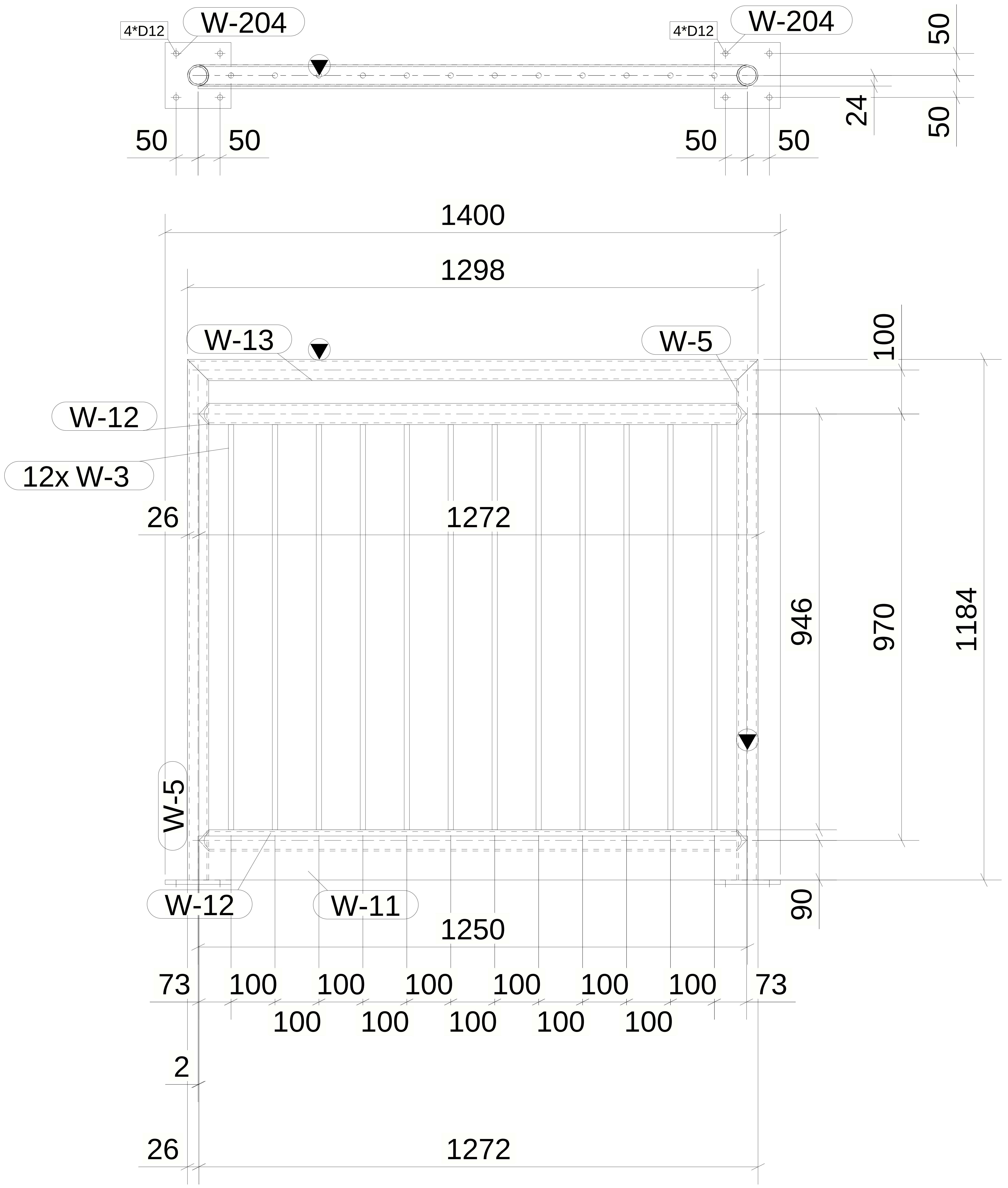
REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS

DRAWING TITLE

6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
RAILING : HR-2

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
93M	0473	ACC	60L00	DWG	50079	C

Tekla Structures


4*D12
W-204
4*D12
W-204
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24
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50
50
1400
1298
W-13
W-5
100
W-12
12x W-3
26
1272
946
970
1184
W-5
W-12
W-11
90
1250
73
100
100
100
100
100
100
73
100
100
100
100
100
2
26
1272

MATERIAL LIST FOR ASSEMBLY MK'DHR-3

Mark	Profile	GRADE	No.	Length	Area	Weight
W-13	CHS48.3*4.0	S355JR	1	1298	0.20	5.68
W-3	ROD12	S355JR	12	922	0.03	0.74
W-5	CHS48.3*4.0	S355JR	2	1184	0.18	5.18
W-11	PL6*100	S355JR	1	1250	0.27	5.89
W-12	CHS48.3*4.0	S355JR	2	1246	0.19	5.45
W-204	PL10*150	S355JR	2	150	0.05	1.77
				Total	1.71	45.19

Drawing shall be updated accordingto the comments on the GA drawing.

REVIEWED WITH COMMENT
MONORAILS PROJECT

6 October Monorail
Engineering Unit
Valid For Construction

1 *REQUIRED AS DRAWN MARKED* HR-3

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority

Hill International
Consultant

Main Contractor

Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS

DRAWING TITLE

6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
RAILING : HR-3

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
93M	0473	ACC	60L00	DWG	50080	C

Tekla Structures

Drawing shall be updated accordingto the comments on the GA drawing.

REVIEWED WITH COMMENT
MONORAILS PROJECT

MATERIAL LIST FOR ASSEMBLY MK'DHR-4

Mark	Profile	GRADE	No.	Length	Area	Weight
W-102	TUBE48.25*3	S355JR	1	8479	1.27	27.11
W-205	PL3*45	S355JR	1	45	0.00	0.03
				Total	1.27	27.14

W-205
8482
3
8479
W-102

1 *REQUIRED AS DRAWN MARKED* HR-4

6 October Monorail
Engineering Unit
Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
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3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority
Consultant
Main Contractor
Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS

DRAWING TITLE

6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
HANDRAIL : HR-4

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
93M	0473	ACC	60L00	DWG	50081	C

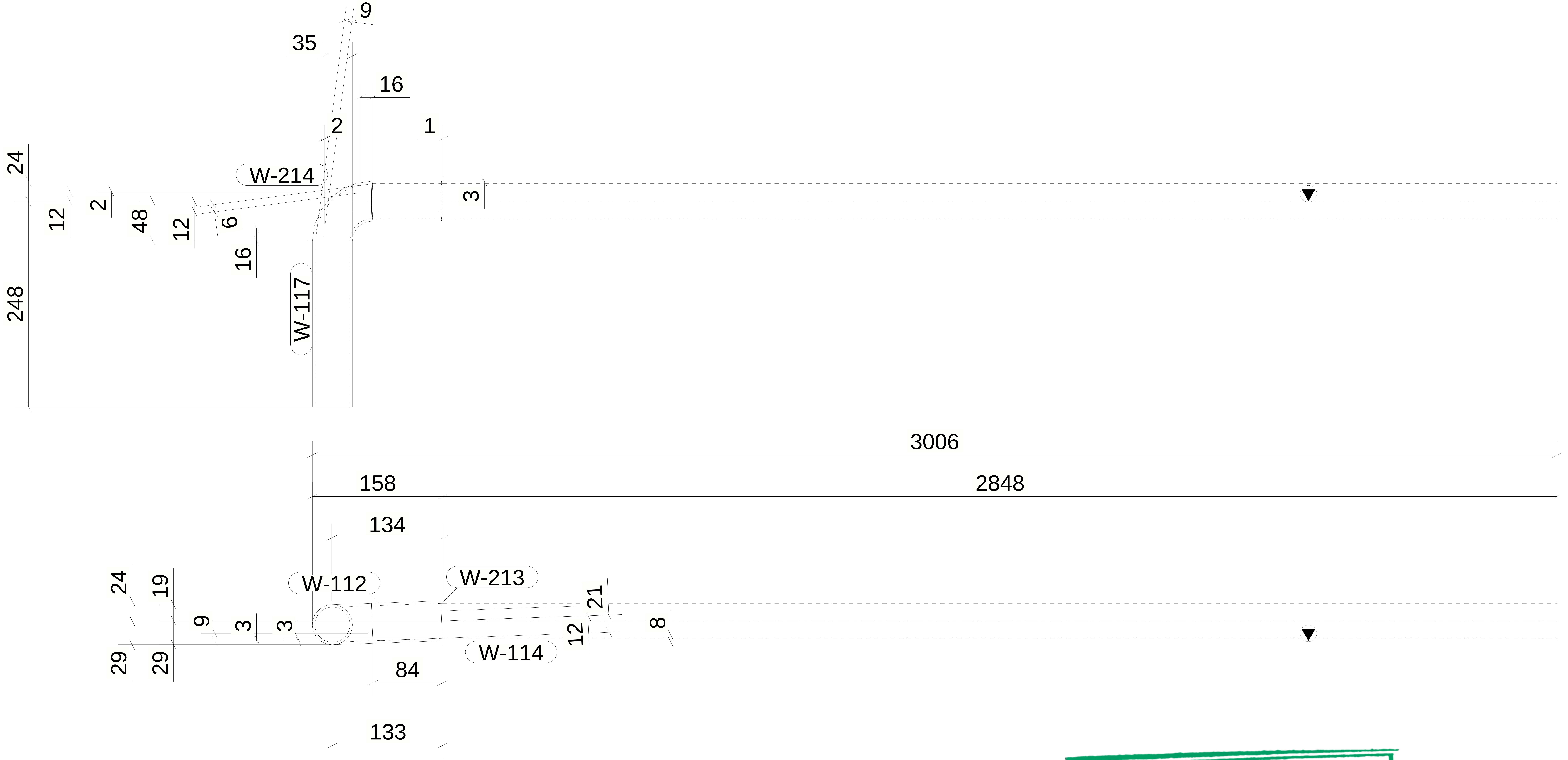
Tekla Structures

Drawing shall be updated accordingto the comments on the GA drawing.

REVIEWED WITH COMMENT
MONORAILS PROJECT

MATERIAL LIST FOR ASSEMBLY MK'DHR-5

Mark	Profile	GRADE	No.	Length	Area	Weight
W-114	TUBE48.25*3	S355JR	1	2848	0.43	9.11
W-112	TUBE48.25*3	S355JR	1	84	0.01	0.27
W-117	TUBE48.25*3	S355JR	1	200	0.03	0.64
W-213	TUBE48.25*3	S355JR	1	2	0.00	0.01
W-214	TUBE48.25*3	S355JR	1	75	0.01	0.24
				Total	0.48	10.26



1 *REQUIRED AS DRAWN MARKED* HR-5

6 October Monorail
Engineering Unit
Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority
Hill International
Consultant
Main Contractor
Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS

DRAWING TITLE
6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
HANDRAIL : HR-5

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
9 3 M	0 4 7 3	A C C	6 0 L 0 0	D W G	5 0 0 8 2	C

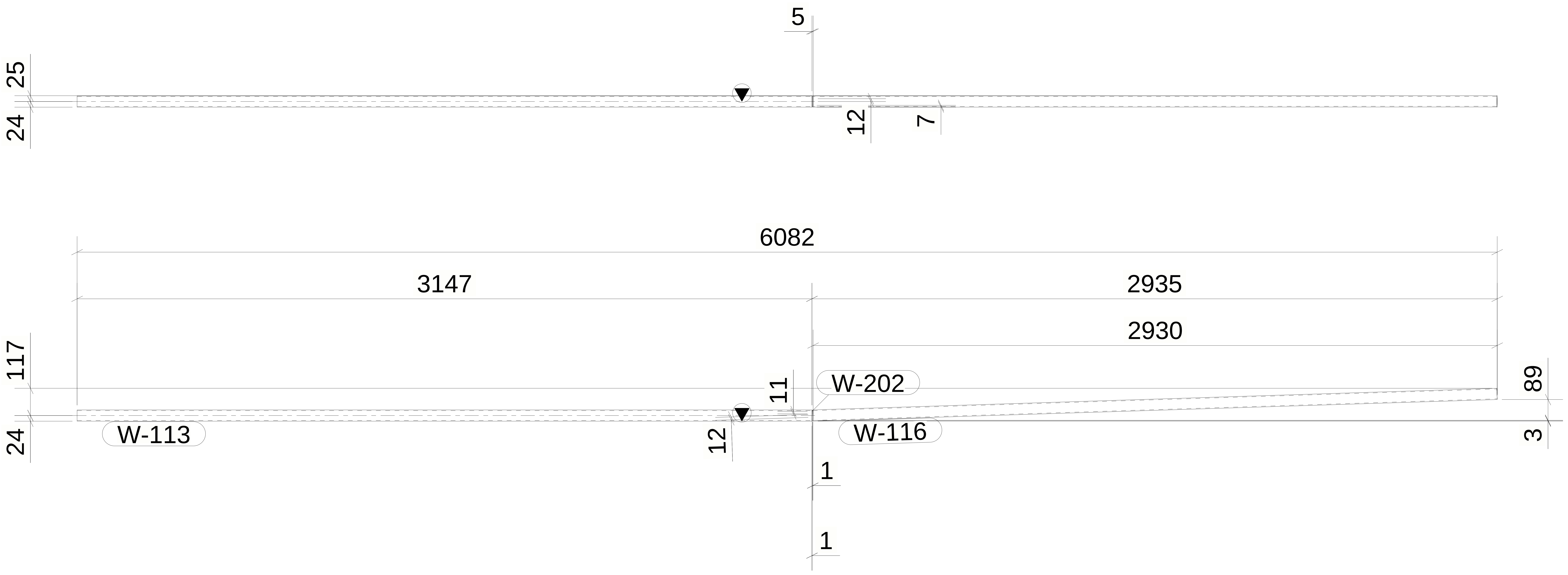
Tekla Structures

Drawing shall be updated accordingto the comments on the GA drawing.

REVIEWED WITH COMMENT
MONORAILS PROJECT

MATERIAL LIST FOR ASSEMBLY MK'DHR-6

Mark	Profile	GRADE	No.	Length	Area	Weight
W-113	TUBE48.25*3	S355JR	1	3147	0.47	10.06
W-116	TUBE48.25*3	S355JR	1	2931	0.44	9.37
W-202	TUBE48.25*3	S355JR	1	4	0.00	0.01
				Total	0.91	19.45



1 *REQUIRED AS DRAWN MARKED* HR-6

6 October Monorail
Engineering Unit
Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
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REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority
Hill International
Consultant
Main Contractor
Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS

DRAWING TITLE
6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
HANDRAIL : HR-6

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
93M	0473	ACC	60L00	DWG	50083	C

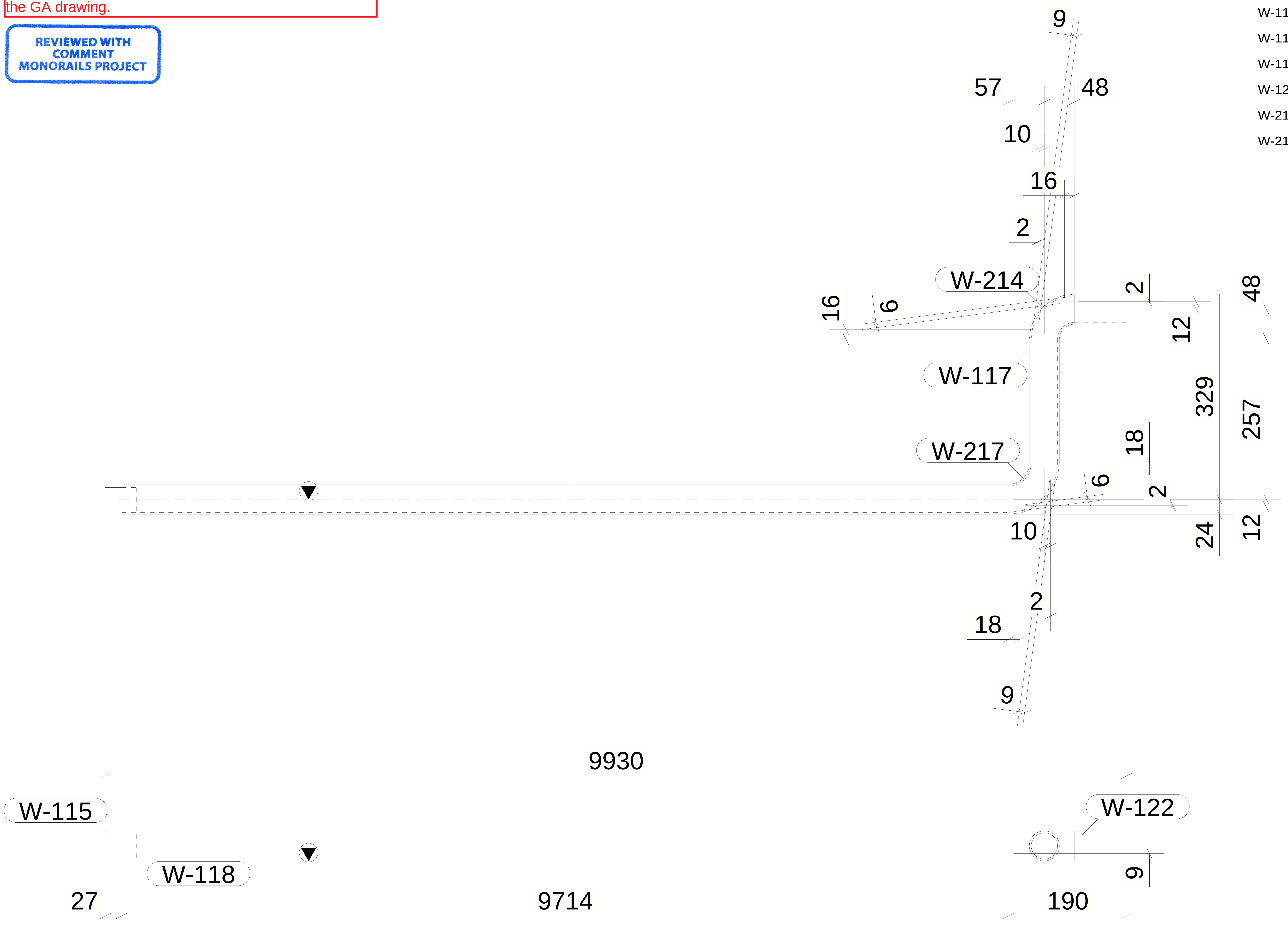
Tekla Structures

Drawing shall be updated accordingto the comments on the GA drawing.

REVIEWED WITH COMMENT
MONORAILS PROJECT

MATERIAL LIST FOR ASSEMBLY MK'DHR-7

Mark	Profile	GRADE	No.	Length	Area	Weight
W-118	TUBE48.25*3	S355JR	1	9714	1.46	31.05
W-115	ROD38	S235JR	1	50	0.01	0.43
W-117	TUBE48.25*3	S355JR	1	200	0.03	0.64
W-122	TUBE48.25*3	S355JR	1	85	0.01	0.27
W-214	TUBE48.25*3	S355JR	1	75	0.01	0.24
W-217	TUBE48.25*3	S355JR	1	90	0.01	0.28
				Total	1.53	32.91



1 *REQUIRED AS DRAWN MARKED* HR-7

6 October Monorail
Engineering Unit
Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority
Hill International
Consultant
Main Contractor
Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS

DRAWING TITLE

6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
HANDRAIL : HR-7

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
93M	0473	ACC	60L00	DWG	50084	C

Tekla Structures

Drawing shall be updated accordingto the comments on the GA drawing.

REVIEWED WITH COMMENT
MONORAILS PROJECT

MATERIAL LIST FOR ASSEMBLY MK'DHR-8

Mark	Profile	GRADE	No.	Length	Area	Weight
W-118	TUBE48.25*3	S355JR	1	9714	1.46	31.05
W-115	ROD38	S235JR	1	50	0.01	0.43
				Total	1.46	31.48

9741
27
9714
W-115
W-118

1 *REQUIRED AS DRAWN MARKED* HR-8

6 October Monorail
Engineering Unit
Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority

Hill International
Consultant

Main Contractor

Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS

DRAWING TITLE

6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
HANDRAIL : HR-8

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
93M	0473	ACC	60L00	DWG	50085	C

Tekla Structures

Drawing shall be updated accordingto the comments on the GA drawing.

REVIEWED WITH COMMENT
MONORAILS PROJECT

MATERIAL LIST FOR ASSEMBLY MK'DHR-9

Mark	Profile	GRADE	No.	Length	Area	Weight
W-121	TUBE48.25*3	S355JR	1	10058	1.51	32.16
W-115	ROD38	S235JR	1	50	0.01	0.43
				Total	1.52	32.58

10085
27
10058
W-115
W-121

2 REQUIRED AS DRAWN MARKED HR-9

6 October Monorail
Engineering Unit
Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority
Hill International
Consultant
Main Contractor
Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS

DRAWING TITLE

6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
HANDRAIL : HR-9

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
93M	0473	ACC	60L00	DWG	50086	C

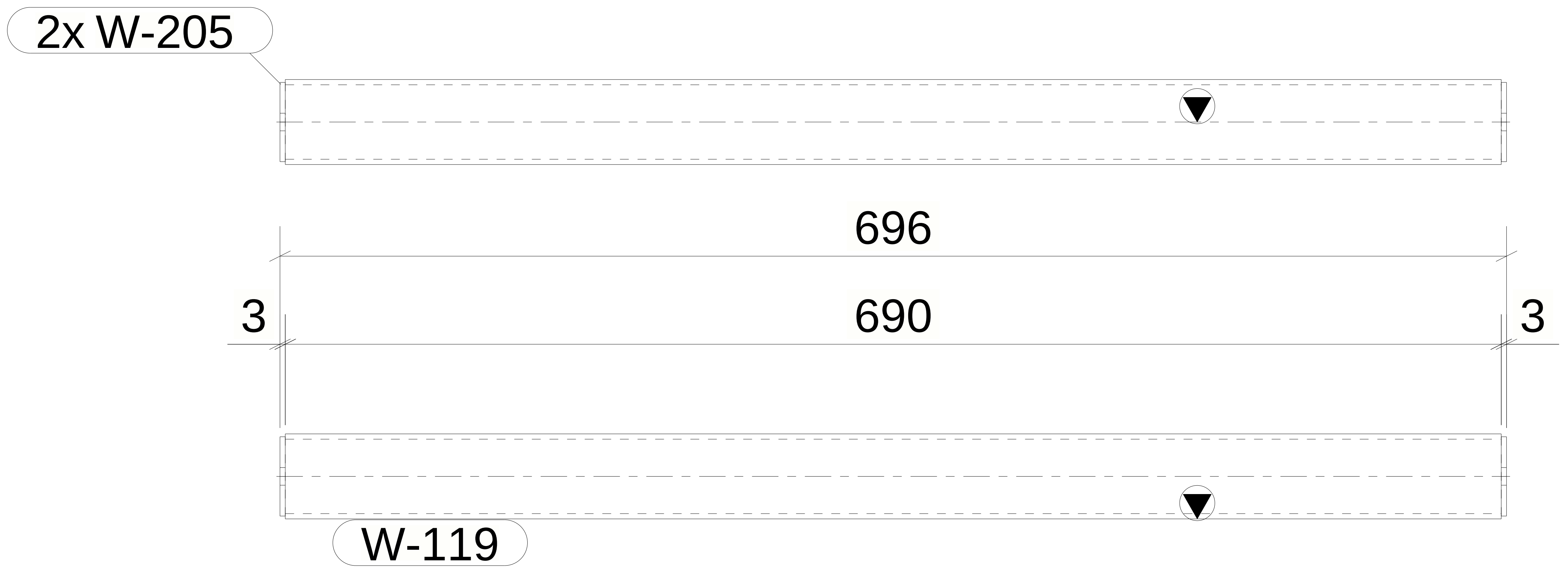
Tekla Structures

Drawing shall be updated accordingto the comments on the GA drawing.

REVIEWED WITH COMMENT
MONORAILS PROJECT

MATERIAL LIST FOR ASSEMBLY MK'DHR-10

Mark	Profile	GRADE	No.	Length	Area	Weight
W-119	TUBE48.25*3	S355JR	1	690	0.10	2.21
W-205	PL3*45	S355JR	2	45	0.00	0.03
				Total	0.11	2.28



1 *REQUIRED AS DRAWN MARKED* HR-10

6 October Monorail
Engineering Unit
Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority

Consultant

Main Contractor

Structural Designer

KEY PLAN:

SCALE
AS SHOWN

SHOPDRAWING

DATE
07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS

DRAWING TITLE

6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
HANDRAIL : HR-10

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
9 3 M	0 4 7 3	A C C	6 0 L 0 0	D W G	5 0 0 8 7	C

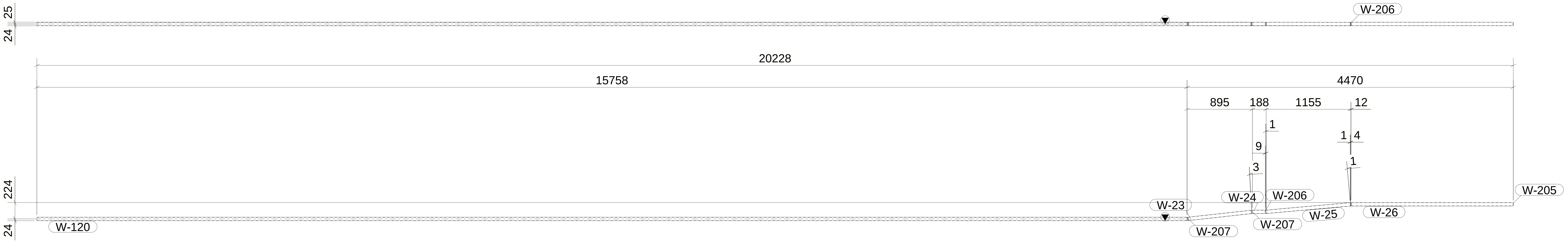
Tekla Structures

Drawing shall be updated accordingto the comments on the GA drawing.

REVIEWED WITH COMMENT MONORAILS PROJECT

MATERIAL LIST FOR ASSEMBLY MK'D**HR-11**

Mark	Profile	GRADE	No.	Length	Area	Weight
W-120	TUBE48.25*3	S355JR	1	15758	2.36	50.38
W-23	TUBE48.25*3	S355JR	1	870	0.13	2.78
W-24	TUBE48.25*3	S355JR	1	176	0.03	0.56
W-25	TUBE48.25*3	S355JR	1	1160	0.17	3.71
W-26	TUBE48.25*3	S355JR	1	2216	0.33	7.08
W-205	PL3*45	S355JR	1	45	0.00	0.03
W-206	TUBE48.25*3	S355JR	2	12	0.00	0.04
W-207	TUBE48.25*3	S355JR	2	15	0.00	0.05
				Total	3.04	64.72



1 *REQUIRED AS DRAWN MARKED* HR-11

6 October Monorail Engineering Unit Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority

Hill International

Consultant

Main Contractor

Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS
C	07.05.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
B	22.04.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
A	22.02.2023	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI

DRAWING TITLE

6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
HANDRAIL : HR-11

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
9 3 M	0 4 7 3	A C C	6 0 L 0 0	D	W G 5 0 0 8 8	C

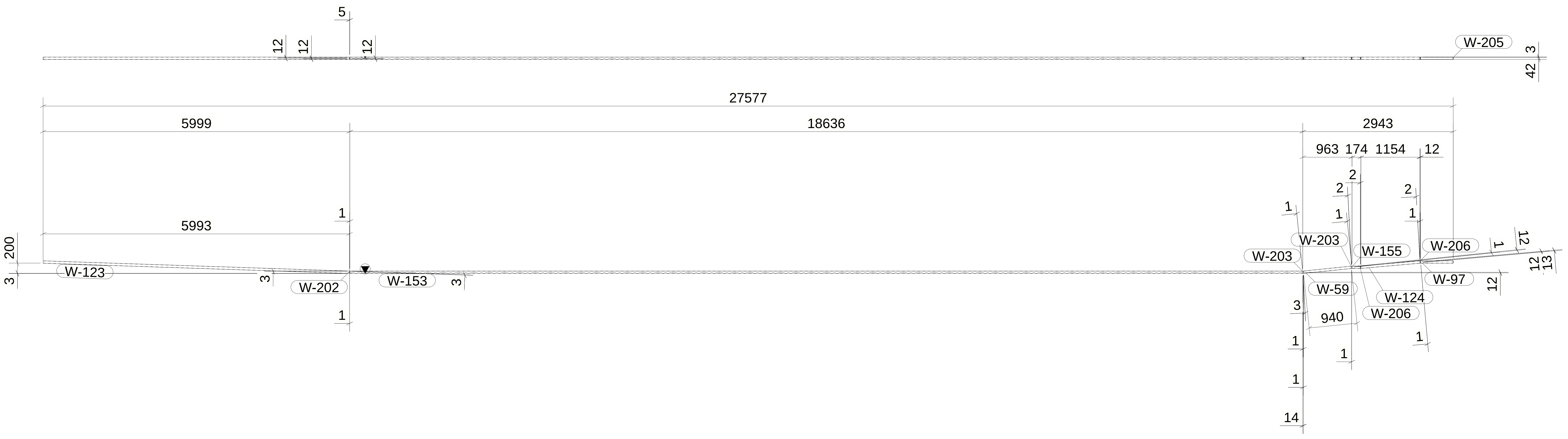
Tekla Structures

Drawing shall be updated accordingto the comments on the GA drawing.

REVIEWED WITH COMMENT
MONORAILS PROJECT

MATERIAL LIST FOR ASSEMBLY MK'DHR-12

Mark	Profile	GRADE	No.	Length	Area	Weight
W-153	TUBE48.25*3	S355JR	1	18636	2.79	59.58
W-59	TUBE48.25*3	S355JR	1	940	0.14	3.00
W-97	TUBE48.25*3	S355JR	1	636	0.10	2.03
W-123	TUBE48.25*3	S355JR	1	5997	0.90	19.17
W-124	TUBE48.25*3	S355JR	1	1159	0.17	3.70
W-155	TUBE48.25*3	S355JR	1	162	0.02	0.52
W-202	TUBE48.25*3	S355JR	1	5	0.00	0.01
W-203	TUBE48.25*3	S355JR	2	14	0.00	0.05
W-205	PL3*45	S355JR	1	45	0.00	0.03
W-206	TUBE48.25*3	S355JR	2	12	0.00	0.04
				Total	4.14	88.23



1 *REQUIRED AS DRAWN MARKED* HR-12

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority
Hill International
Consultant
ORASCOM CONSTRUCTION
The Arab Contractors
BOMBARDIER
Main Contractor
INNOVA TRANSPORTATION
Structural Designer

KEY PLAN:

6 October Monorail
Engineering Unit
Valid For Construction

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS
C	07.05.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
B	22.04.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
A	22.02.2023	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI

DRAWING TITLE

6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
HANDRAIL : HR-12

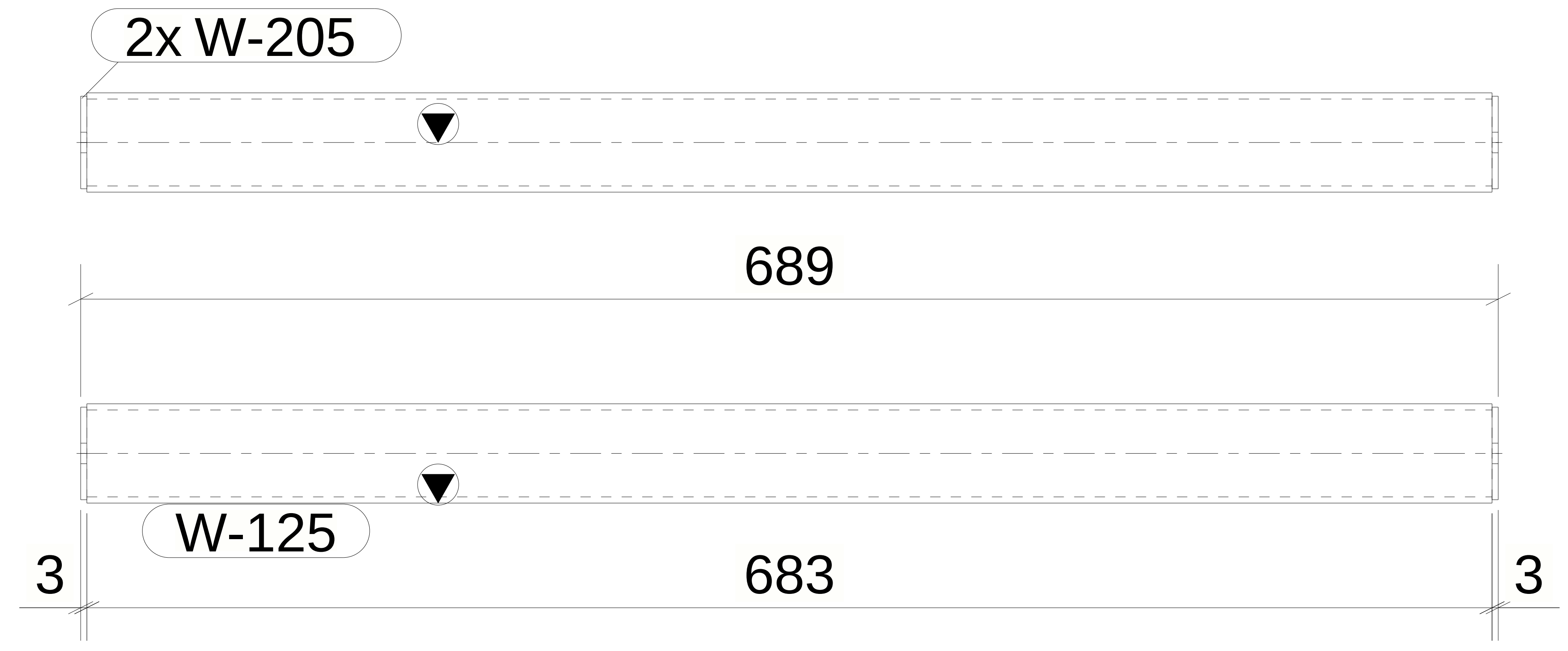
Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
9 3 M	0 4 7 3	A C C	6 0 L 0 0	D W G	5 0 0 8 9	C

Tekla Structures

MATERIAL LIST FOR ASSEMBLY MK'DHR-13						
Mark	Profile	GRADE	No.	Length	Area	Weight
W-125	TUBE48.25*3	S355JR	1	683	0.10	2.18
W-205	PL3*45	S355JR	2	45	0.00	0.03
				Total	0.11	2.25

Drawing shall be updated accordingto the comments on the GA drawing.

REVIEWED WITH COMMENT MONORAILS PROJECT



1 *REQUIRED AS DRAWN MARKED* HR-13

6 October Monorail Engineering Unit Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority
Consultant
Main Contractor
Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS

DRAWING TITLE
6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
ROD : HR-13

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
93M	0473	ACC	60L00	DWG	50090	C

Tekla Structures

Drawing shall be updated accordingto the comments on the GA drawing.

REVIEWED WITH COMMENT
MONORAILS PROJECT

MATERIAL LIST FOR ASSEMBLY MK'DHR-14

Mark	Profile	GRADE	No.	Length	Area	Weight
W-154	TUBE48.25*3	S355JR	1	10100	1.51	32.29
W-205	PL3*45	S355JR	1	45	0.00	0.03
				Total	1.52	32.32

W-205
10103
W-154
3
10100

1 *REQUIRED AS DRAWN MARKED* HR-14

6 October Monorail
Engineering Unit
Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority

Hill International
Consultant

Main Contractor

Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

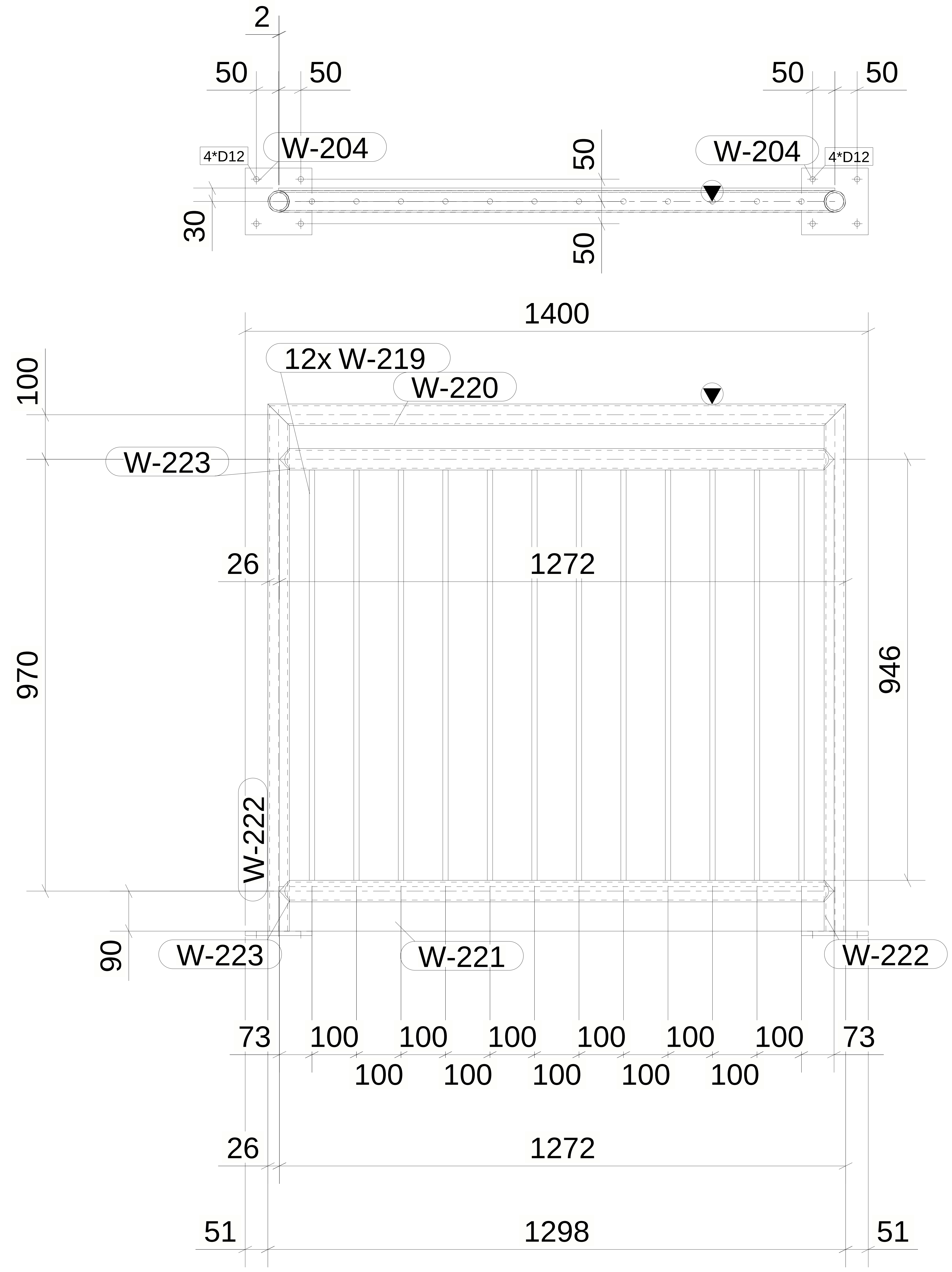
REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS

DRAWING TITLE

6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
HANDRAIL : HR-14

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
93M	0473	ACC	60L00	DWG	50091	C

Tekla Structures


2
50
50
50
50
W-204
W-204
4*D12
4*D12
50
50
30
1400
12x W-219
W-220
100
W-223
26
1272
970
946
W-222
90
W-223
W-221
W-222
73
100
100
100
100
100
100
73
100
100
100
100
100
26
1272
51
1298
51

46 REQUIRED AS DRAWN MARKED HR-15

MATERIAL LIST FOR ASSEMBLY MK'DHR-15

Mark	Profile	GRADE	No.	Length	Area	Weight
W-220	CHS48.3*4.0	S355JR	1	1298	0.20	5.68
W-204	PL10*150	S355JR	2	150	0.05	1.77
W-219	ROD12	S355JR	12	922	0.03	0.74
W-221	PL6*100	S355JR	1	1250	0.27	5.89
W-222	CHS48.3*4.0	S355JR	2	1184	0.18	5.18
W-223	CHS48.3*4.0	S355JR	2	1246	0.19	5.45
				Total	1.71	45.19

Drawing shall be updated accordingto the comments on the GA drawing.

REVIEWED WITH COMMENT
MONORAILS PROJECT

6 October Monorail
Engineering Unit
Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority
Hill International
Consultant
Main Contractor
Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

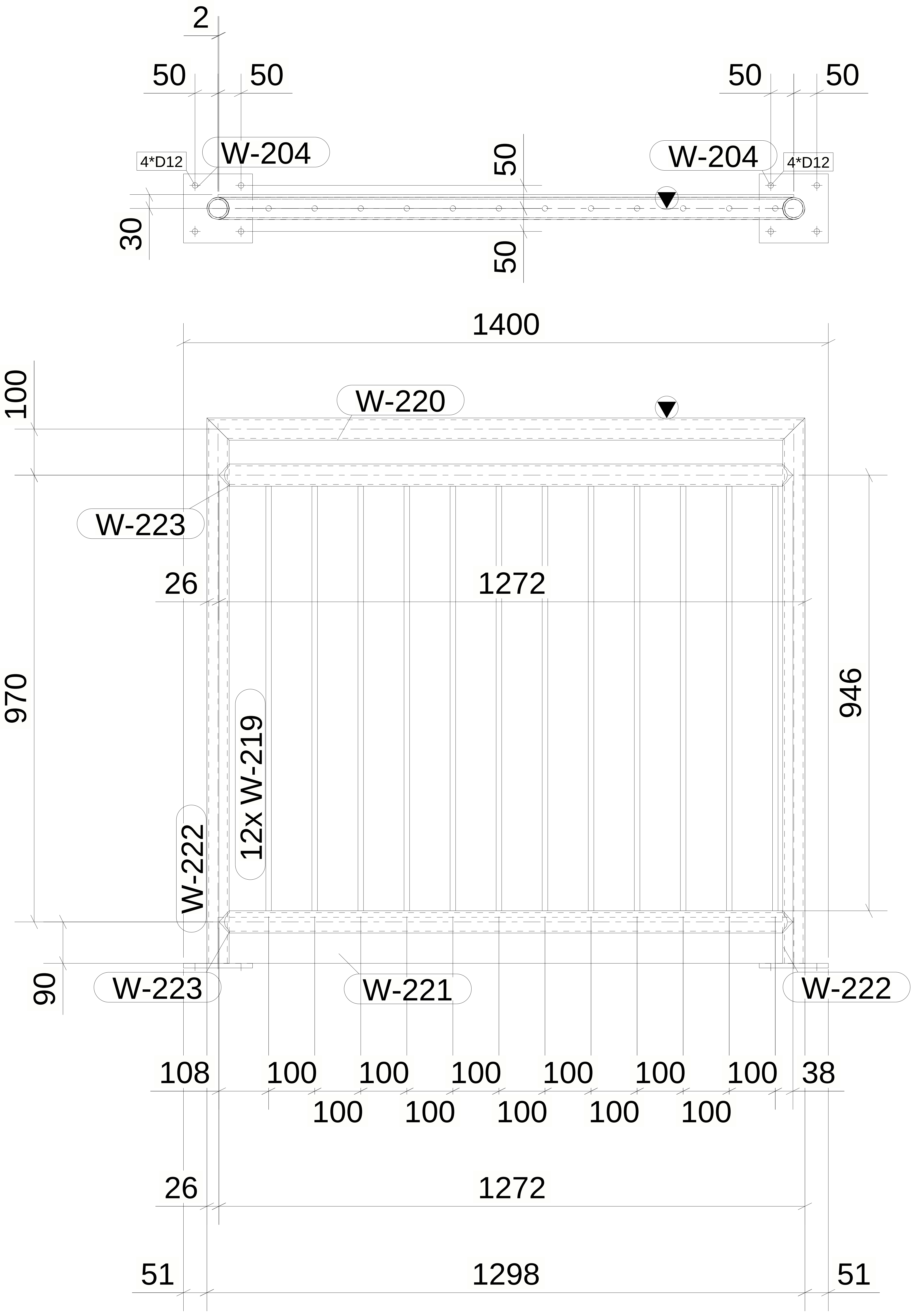
REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS

DRAWING TITLE

6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
RAILING : HR-15

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
9 3 M	0 4 7 3	A C C	6 0 L 0 0	D W G	5 0 0 9 2	C

Tekla Structures


2
50
50
50
50
W-204
W-204
4*D12
4*D12
50
30
50
1400
100
W-220
W-223
26
1272
970
946
12x W-219
W-222
90
W-223
W-221
W-222
108
100
100
100
100
100
100
38
100
100
100
100
100
26
1272
51
1298
51

2 *REQUIRED AS DRAWN MARKED* HR-16

MATERIAL LIST FOR ASSEMBLY MK'DHR-16

Mark	Profile	GRADE	No.	Length	Area	Weight
W-220	CHS48.3*4.0	S355JR	1	1298	0.20	5.68
W-204	PL10*150	S355JR	2	150	0.05	1.77
W-219	ROD12	S355JR	12	922	0.03	0.74
W-221	PL6*100	S355JR	1	1250	0.27	5.89
W-222	CHS48.3*4.0	S355JR	2	1184	0.18	5.18
W-223	CHS48.3*4.0	S355JR	2	1246	0.19	5.45
				Total	1.71	45.19

Drawing shall be updated accordingto the comments on the GA drawing.

REVIEWED WITH COMMENT MONORAILS PROJECT

6 October Monorail Engineering Unit Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority

Hill International

Consultant

Main Contractor

Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

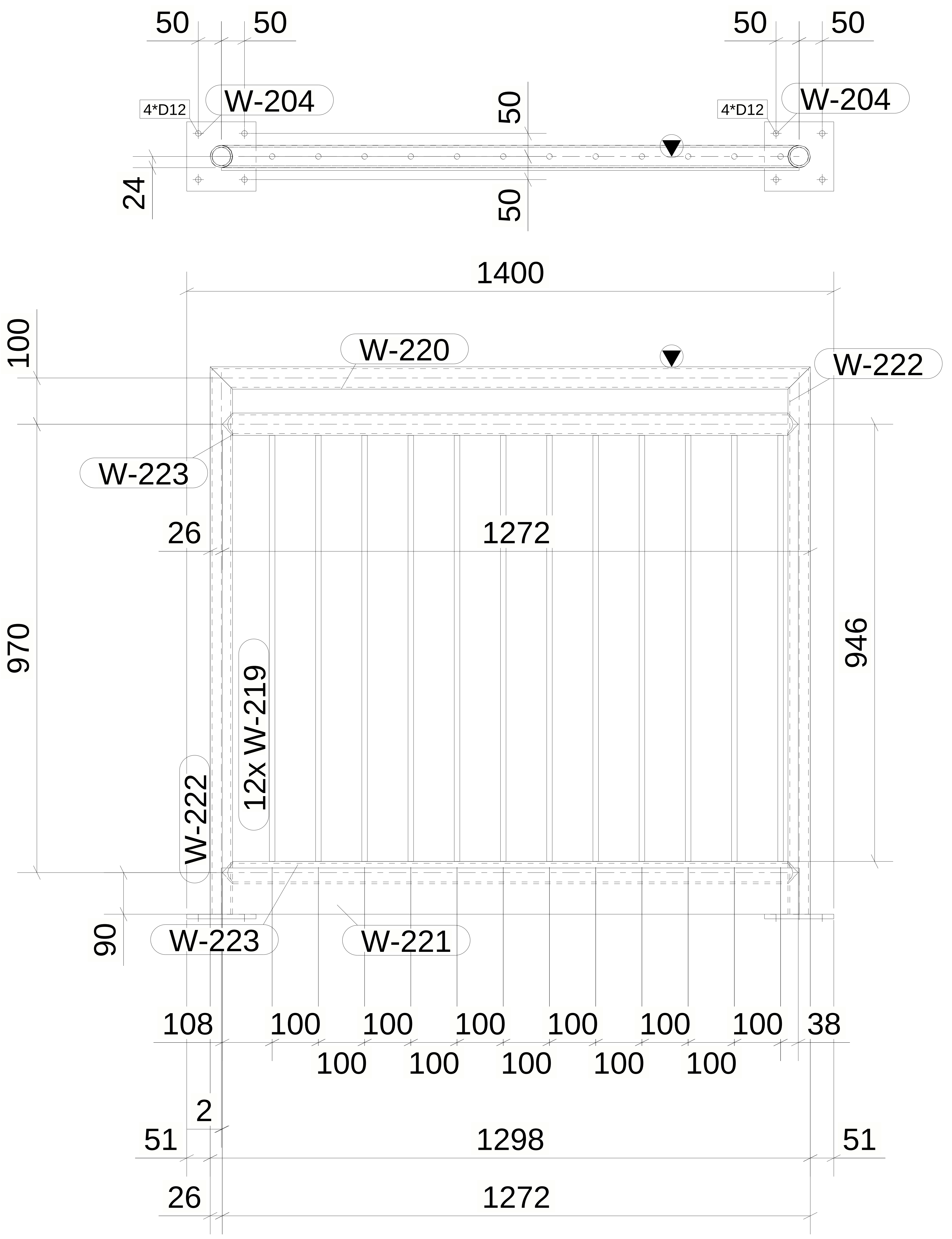
REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS

DRAWING TITLE

6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
RAILING : HR-16

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
93M	0473	ACC	60L00	DWG	50093	C

Tekla Structures



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50
4*D12
W-204
50
4*D12
W-204
24
50
1400
100
W-220
W-222
W-223
26
1272
970
946
12x W-219
W-222
90
W-223
W-221
108
100
100
100
100
100
100
38
100
100
100
100
100
2
51
1298
51
26
1272

1 *REQUIRED AS DRAWN MARKED* HR-17

MATERIAL LIST FOR ASSEMBLY MK'DHR-17

Mark	Profile	GRADE	No.	Length	Area	Weight
W-220	CHS48.3*4.0	S355JR	1	1298	0.20	5.68
W-204	PL10*150	S355JR	2	150	0.05	1.77
W-219	ROD12	S355JR	12	922	0.03	0.74
W-221	PL6*100	S355JR	1	1250	0.27	5.89
W-222	CHS48.3*4.0	S355JR	2	1184	0.18	5.18
W-223	CHS48.3*4.0	S355JR	2	1246	0.19	5.45
				Total	1.71	45.19

Drawing shall be updated accordingto the comments on the GA drawing.

REVIEWED WITH COMMENT MONORAILS PROJECT

6 October Monorail Engineering Unit Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority

Hill International

Consultant

Main Contractor

Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS

DRAWING TITLE

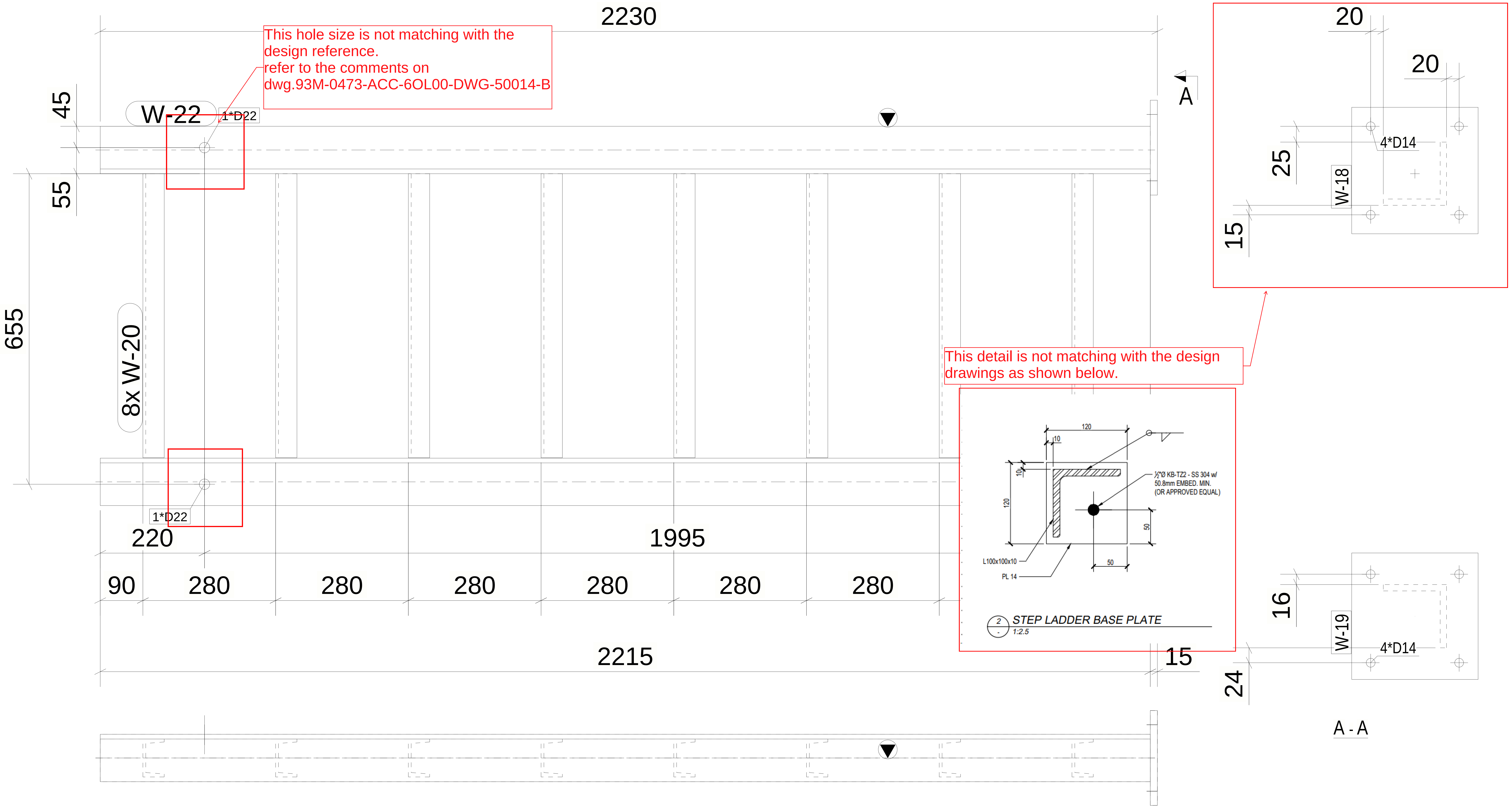
6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
RAILING : HR-17

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
93M	0473	ACC	60L00	DWG	50094	C

Tekla Structures

MATERIAL LIST FOR ASSEMBLY MK'D**LD-1**

Mark	Profile	GRADE	No.	Length	Area	Weight
W-22	L100*10	S235JR	1	2215	0.86	33.39
W-18	PL15*200	S355JR	1	200	0.09	4.71
W-19	PL15*200	S355JR	1	200	0.09	4.71
W-20	UPN80	S235JR	8	599	0.19	5.17
W-21	L100*10	S235JR	1	2215	0.86	33.39
				Total	3.40	117.57


2230
W-22
1*D22
45
55
655
8x W-20
1*D22
220
1995
90
280
280
280
280
280
280
2215
15
A
20
20
25
15
W-18
4*D14
16
24
W-19
4*D14
A - A
120
10
10
120
50
50
½"Ø KB-TZ2 - SS 304 w/
50.8mm EMBED. MIN.
(OR APPROVED EQUAL)
L100x100x10
PL 14
2
-
STEP LADDER BASE PLATE
1:2.5

This hole size is not matching with the design reference.
refer to the comments on dwg.93M-0473-ACC-6OL00-DWG-50014-B

This detail is not matching with the design drawings as shown below.

1 *REQUIRED AS DRAWN MARKED* LD-1

6 October Monorail
Engineering Unit
Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority

Hill International
Consultant

Main Contractor

Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS

DRAWING TITLE

6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
LADDER : LD-1

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
93M	0473	ACC	60L00	DWG	50095	C

Tekla Structures

Same comments as
93M-0473-ACC-6OL00-DWG-50096-C.

REVIEWED WITH
COMMENT
MONORAILS PROJECT

MATERIAL LIST FOR ASSEMBLY MK'DLD-2

Mark	Profile	GRADE	No.	Length	Area	Weight
W-110	L100*10	S235JR	1	2517	0.98	37.94
W-18	PL15*200	S355JR	2	200	0.09	4.71
W-20	UPN80	S235JR	9	599	0.19	5.17
W-107	PL10*100	S355JR	2	70	0.01	0.46
W-108	L100*10	S235JR	1	1883	0.73	28.39
W-109	L100*10	S235JR	1	1883	0.73	28.39
W-111	L100*10	S235JR	1	2517	0.98	37.94
				Total	5.32	189.54

4380
W-110
B
W-20
600
1
W-111
24
2517
1839
19
21
4*D14
25
13
W-18
20
A - A
79
78
22
2*D14
B - B
2256
322
287
1622
44
217
188
45
66
300
17
W-107
W-109
10
31
68
11
78
A
406
304
1639
33
W-108

2 REQUIRED AS DRAWN MARKED LD-2

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority

Hill International
Consultant

Main Contractor

Structural Designer

KEY PLAN:

6 October Monorail
Engineering Unit
Valid For Construction

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS
C	07.05.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
B	22.04.2024	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI
A	22.02.2023	A.N	M.M	B.K	ISSUED FOR INFORMATION	IFI

DRAWING TITLE

6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
LADDER : LD-2

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
9 3 M	0 4 7 3	A C C	6 0 L 0 0	D W G	5 0 0 9 6	C

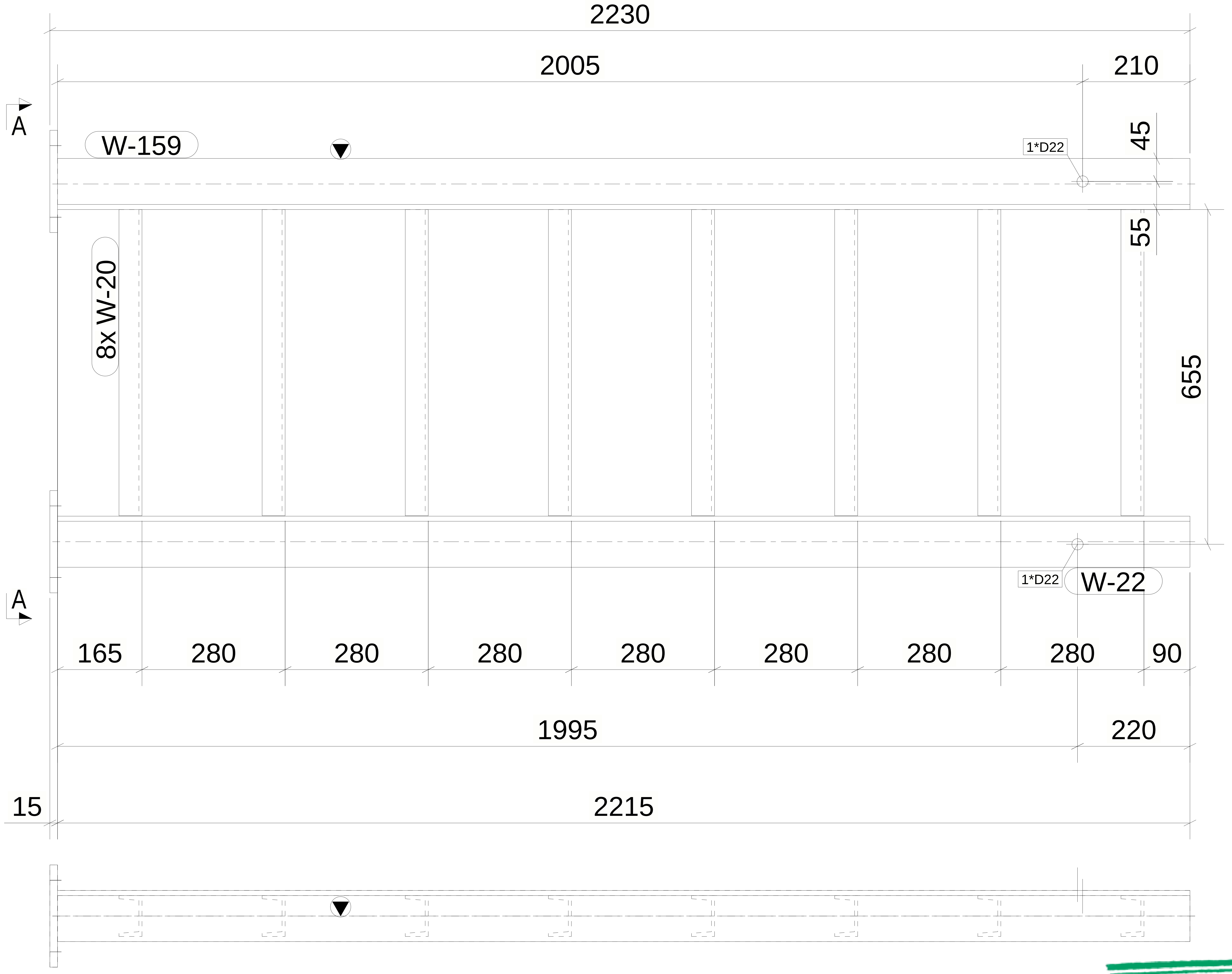
Tekla Structures

Same comments as
93M-0473-ACC-6OL00-DWG-50096-C.

REVIEWED WITH
COMMENT
MONORAILS PROJECT

MATERIAL LIST FOR ASSEMBLY MK'DLD-3

Mark	Profile	GRADE	No.	Length	Area	Weight
W-159	L100*10	S235JR	1	2215	0.86	33.39
W-18	PL15*200	S355JR	2	200	0.09	4.71
W-20	UPN80	S235JR	8	599	0.19	5.17
W-22	L100*10	S235JR	1	2215	0.86	33.39
				Total	3.40	117.57


2230
2005
210
A
W-159
1*D22
45
55
8x W-20
655
A
1*D22
W-22
165
280
280
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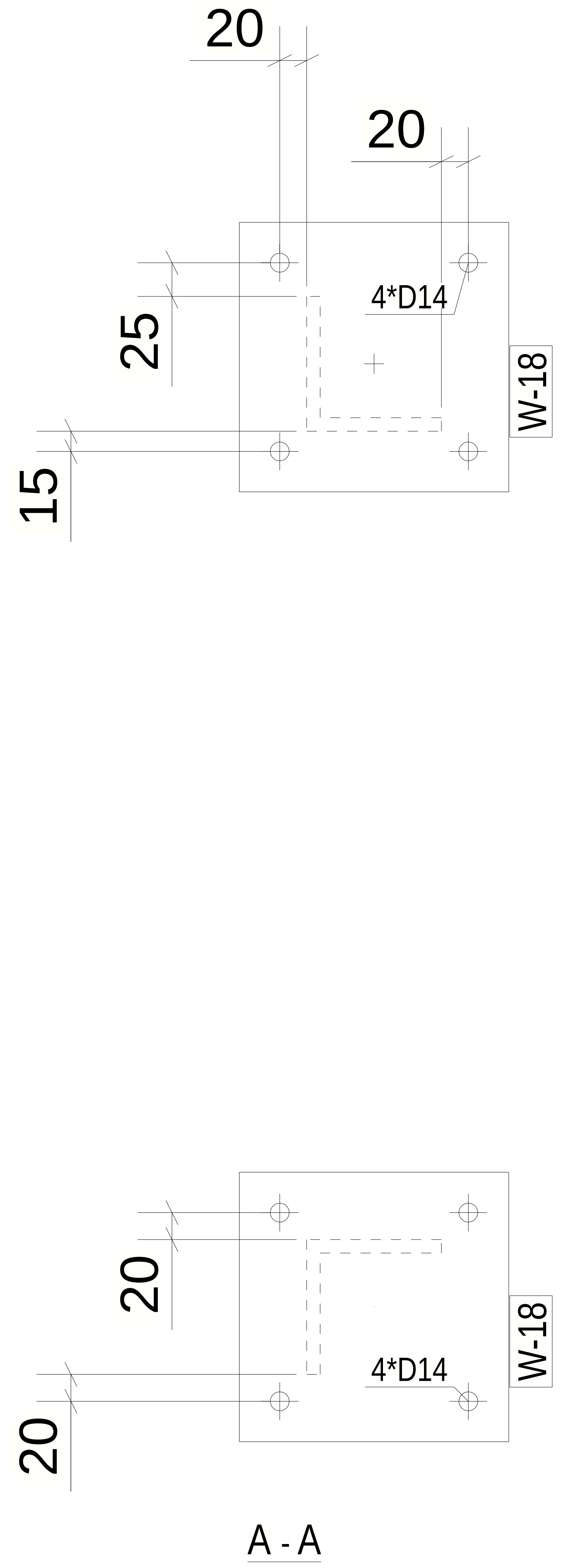
280
90
1995
220
15
2215


20
20
25
4*D14
W-18
15
20
4*D14
W-18
20
A - A

1 *REQUIRED AS DRAWN MARKED* LD-3

6 October Monorail
Engineering Unit
Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

Hill International

The Authority | Consultant | Main Contractor | Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS

DRAWING TITLE

6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
LADDER : LD-3

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
93M	0473	ACC	60L00	DWG	50097	C

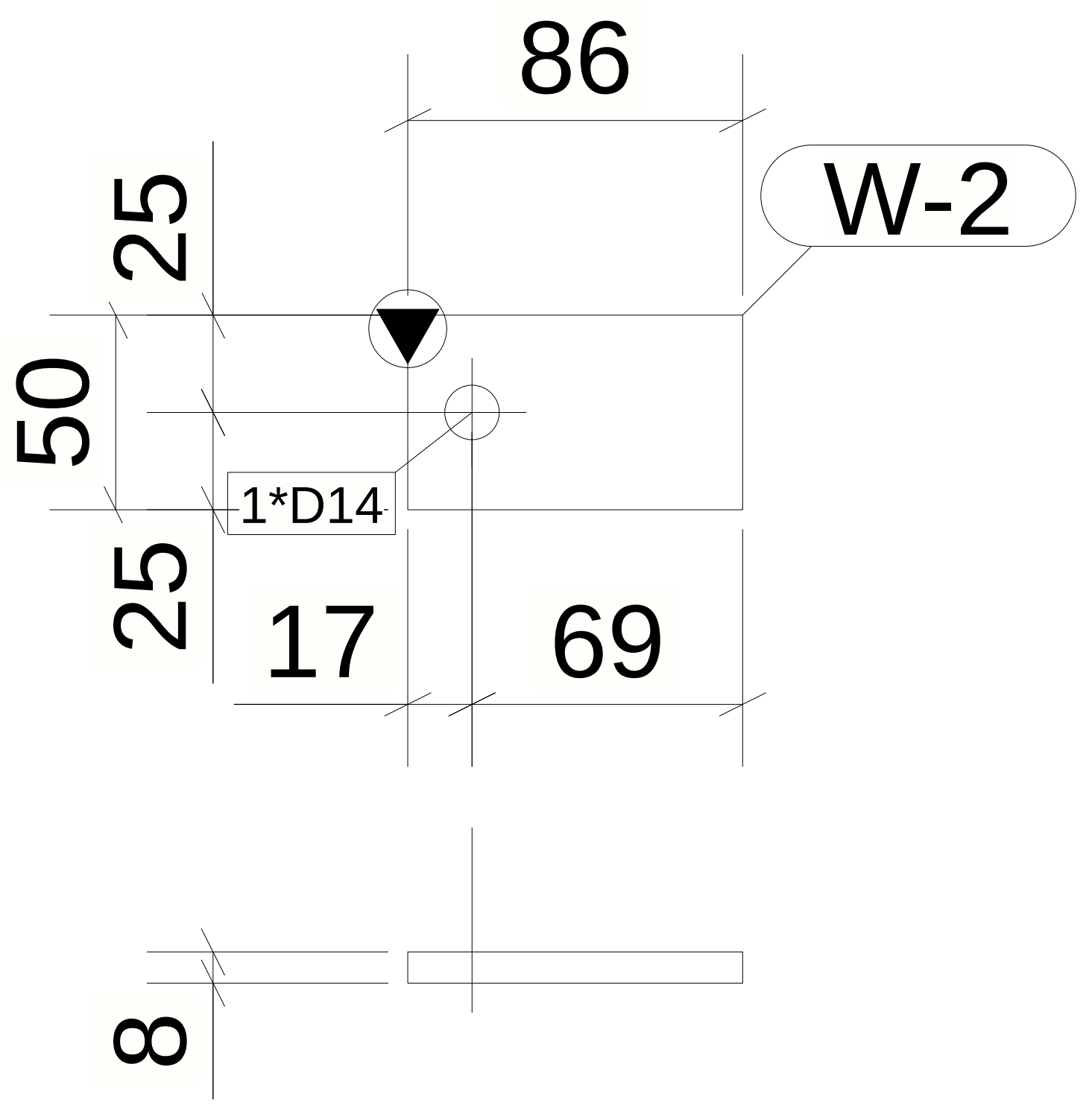
Tekla Structures

Same comments as
93M-0473-ACC-6OL00-DWG-50100-C.

REVIEWED WITH
COMMENT
MONORAILS PROJECT

MATERIAL LIST FOR ASSEMBLY MK'DLP-1

Mark	Profile	GRADE	No.	Length	Area	Weight
W-2	PL8*50	S355JR	1	86	0.01	0.27
				Total	0.01	0.27



1 *REQUIRED AS DRAWN MARKED* LP-1

6 October Monorail
Engineering Unit
Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority

Consultant

Main Contractor

Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS

DRAWING TITLE

6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
PLATE : LP-1

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
93M	0473	ACC	60L00	DWG	50098	C

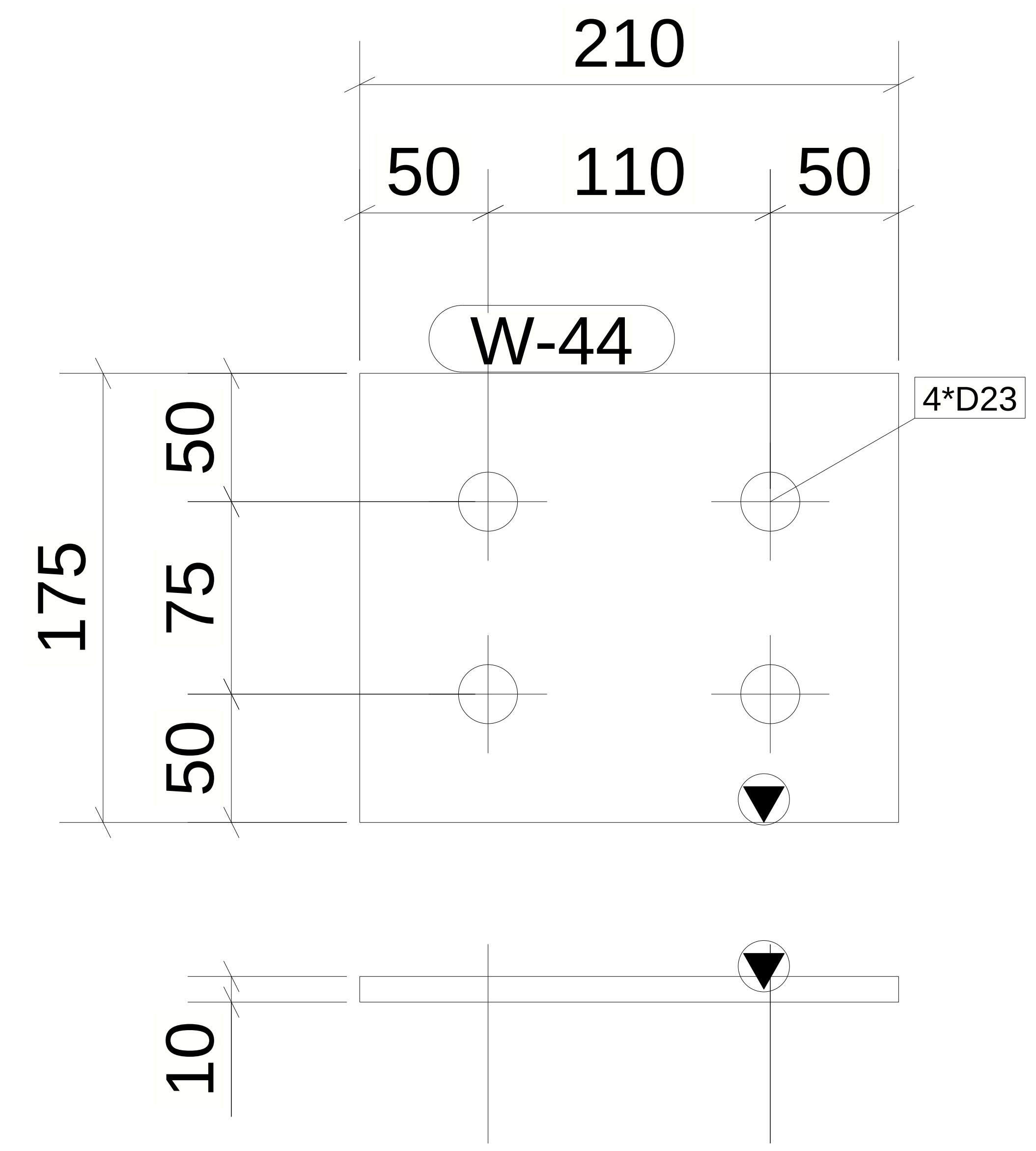
Tekla Structures

Drawing shall be updated accordingto the comments on the GA drawing.

REVIEWED WITH COMMENT MONORAILS PROJECT

MATERIAL LIST FOR ASSEMBLY MK'DLP-2

Mark	Profile	GRADE	No.	Length	Area	Weight
W-44	PL10*175	S355JR	1	210	0.08	2.88
				Total	0.08	2.88



8 REQUIRED AS DRAWN MARKED LP-2

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority

Hill International
Consultant

Main Contractor

Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS

6 October Monorail
Engineering Unit
Valid For Construction

DRAWING TITLE

6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
PLATE : LP-2

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
93M	0473	ACC	60L00	DWG	50099	C

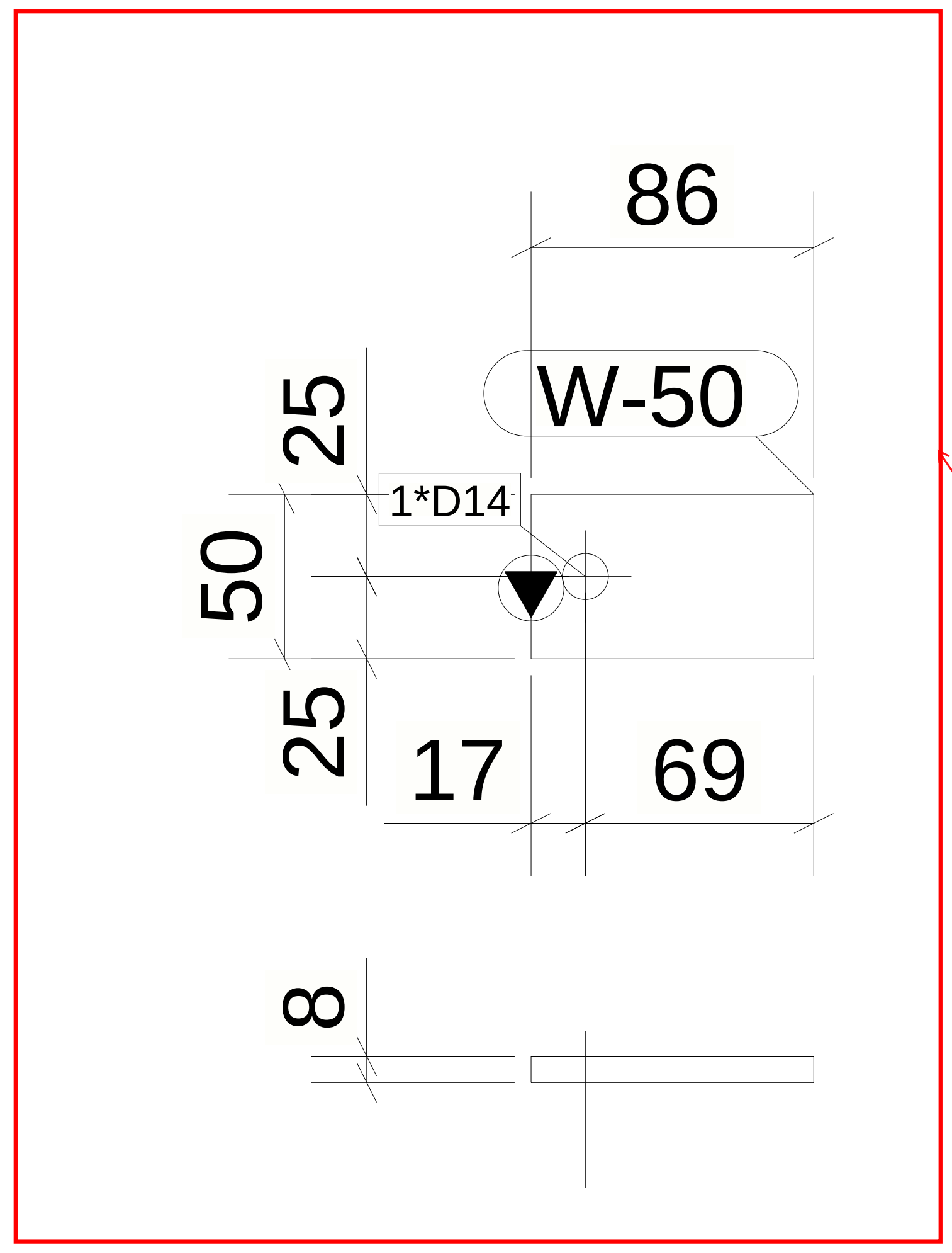
Tekla Structures

Drawing shall be updated accordingto the comments on the GA drawing.

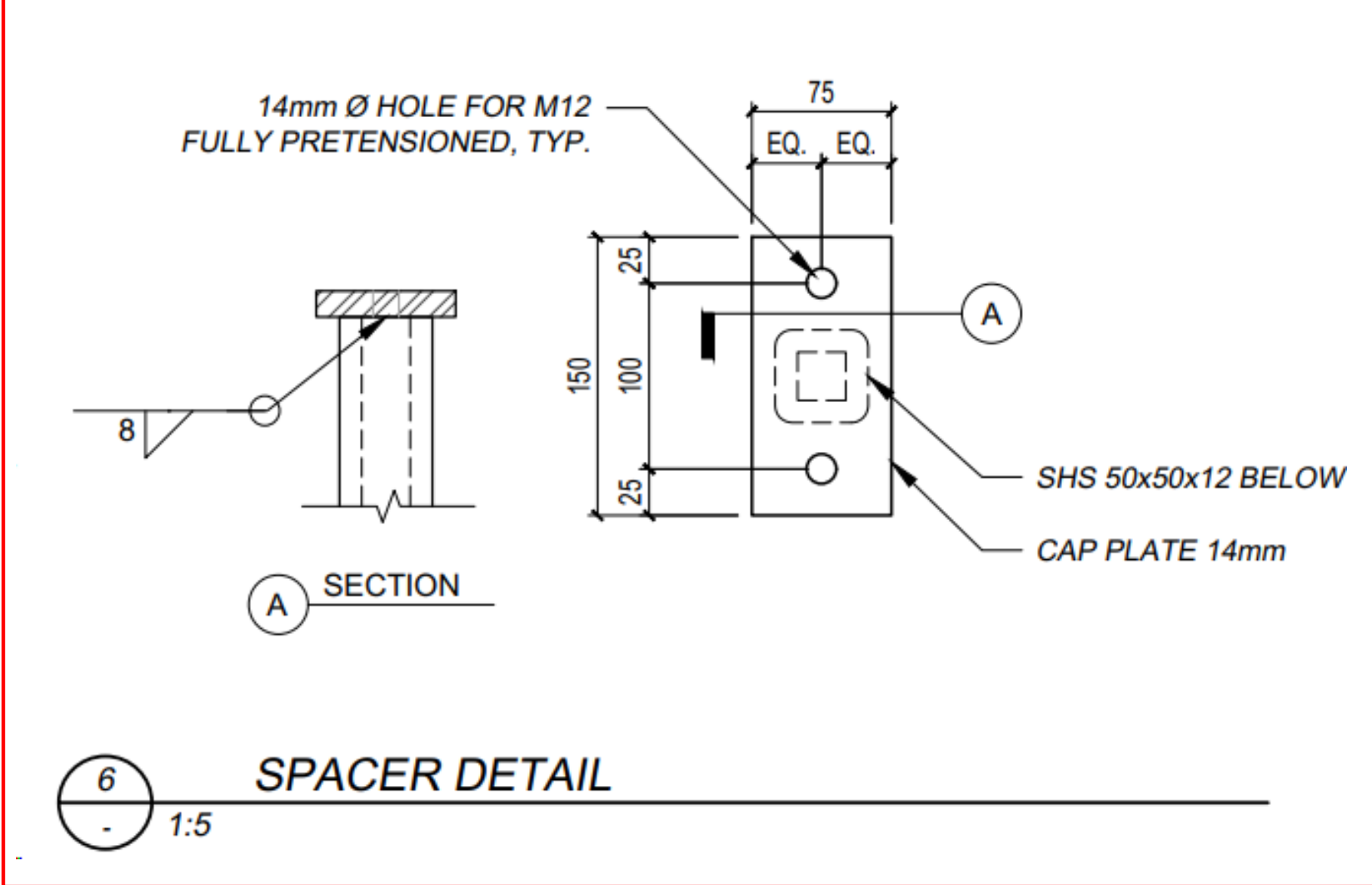
REVIEWED WITH COMMENT MONORAILS PROJECT

MATERIAL LIST FOR ASSEMBLY MK'DLP-3

Mark	Profile	GRADE	No.	Length	Area	Weight
W-50	PL8*50	S355JR	1	86	0.01	0.27
				Total	0.01	0.27


86
W-50
25
1*D14
50
25
17
69
8

Detail is not matching with the design reference as shown below so please add a reference for this detail.


14mm Ø HOLE FOR M12 FULLY PRETENSIONED, TYP.
75
EQ.
EQ.
25
150
100
25
A
8
SHS 50x50x12 BELOW
CAP PLATE 14mm
A
SECTION
6
-
1:5

SPACER DETAIL

1 *REQUIRED AS DRAWN MARKED* LP-3

6 October Monorail Engineering Unit Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority — Hill International — Consultant — Main Contractor — Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS

DRAWING TITLE

6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
PLATE : LP-3

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
9 3 M	0 4 7 3	A C C	6 0 L 0 0	D W G	5 0 1 0 0	C

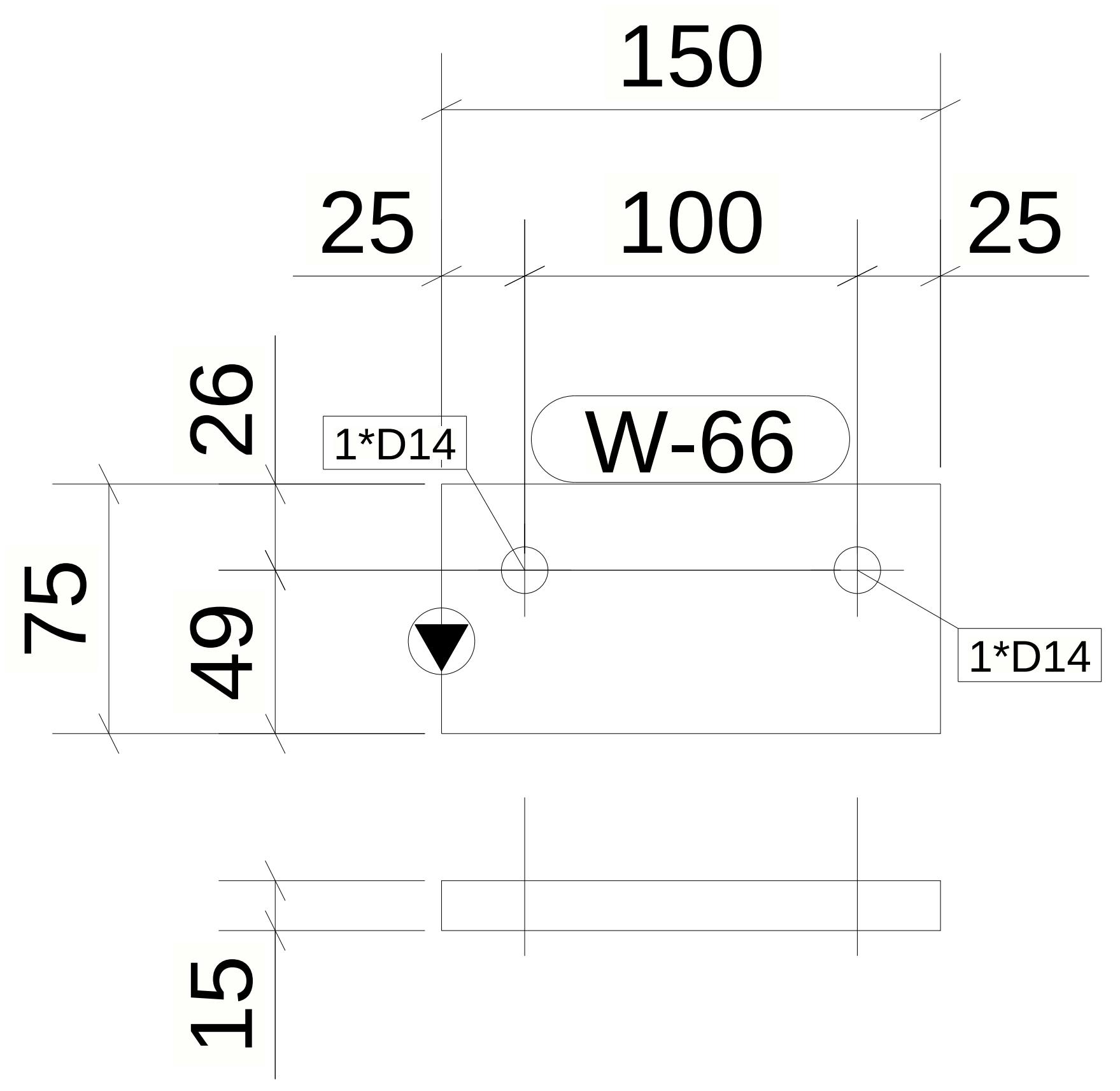
Tekla Structures

Same comments as
93M-0473-ACC-6OL00-DWG-50100-C.

REVIEWED WITH COMMENT MONORAILS PROJECT

MATERIAL LIST FOR ASSEMBLY MK'DLP-4

Mark	Profile	GRADE	No.	Length	Area	Weight
W-66	PL15*75	S355JR	1	150	0.03	1.32
				Total	0.03	1.32



1 *REQUIRED AS DRAWN MARKED* LP-4

6 October Monorail Engineering Unit Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority

Consultant

Main Contractor

Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS

DRAWING TITLE

6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
PLATE : LP-4

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
9 3 M	0 4 7 3	A C C	6 0 L 0 0	D W G	5 0 1 0 1	C

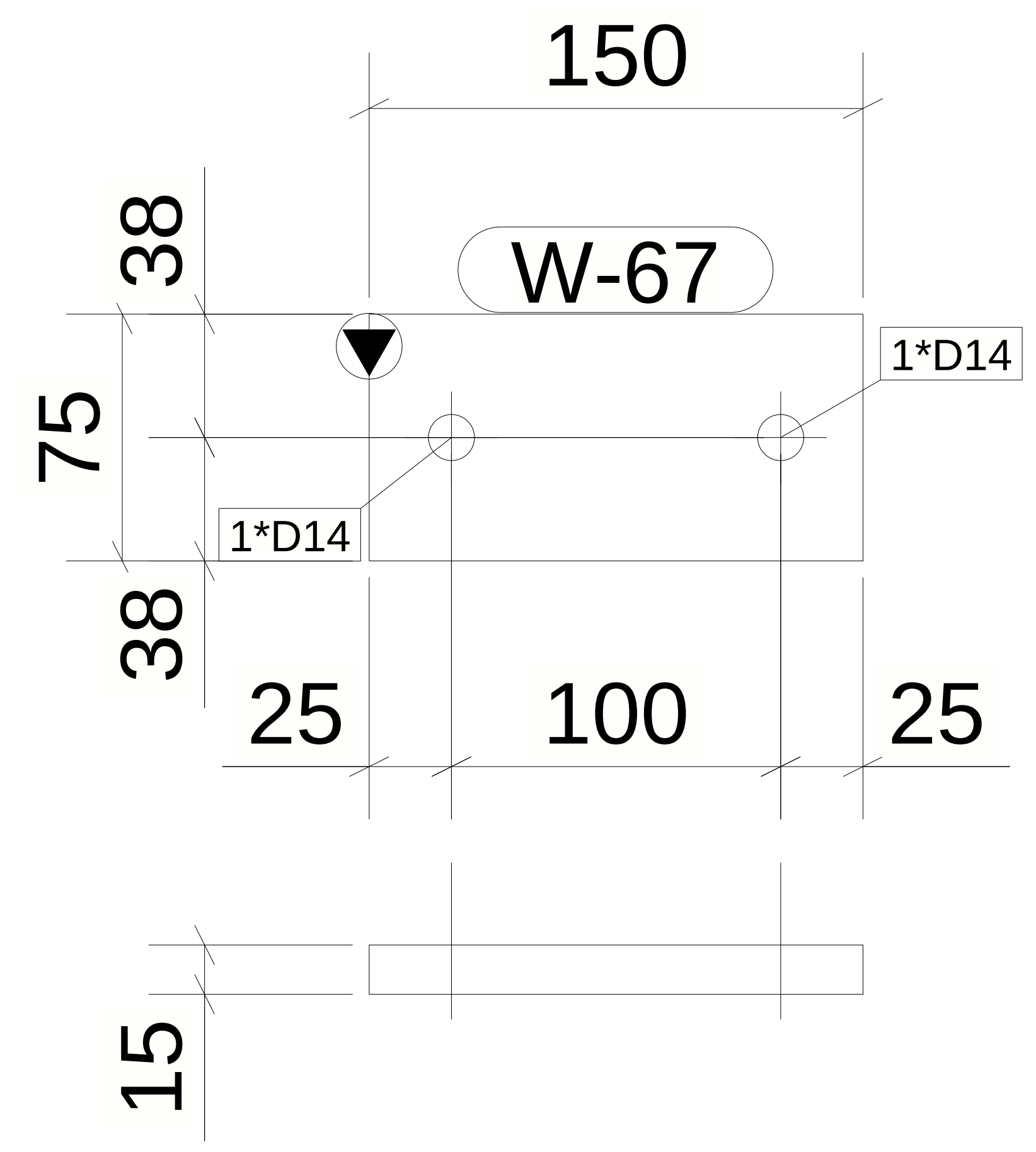
Tekla Structures

Same comments as
93M-0473-ACC-6OL00-DWG-50100-C.

REVIEWED WITH
COMMENT
MONORAILS PROJECT

MATERIAL LIST FOR ASSEMBLY MK'DLP-5

Mark	Profile	GRADE	No.	Length	Area	Weight
W-67	PL15*75	S355JR	1	150	0.03	1.32
				Total	0.03	1.32



3 *REQUIRED AS DRAWN MARKED* LP-5

6 October Monorail
Engineering Unit
Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority

Hill International
Consultant

Main Contractor

Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS

DRAWING TITLE

6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
PLATE : LP-5

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
9 3 M	0 4 7 3	A C C	6 0 L 0 0	D W G	5 0 1 0 2	C

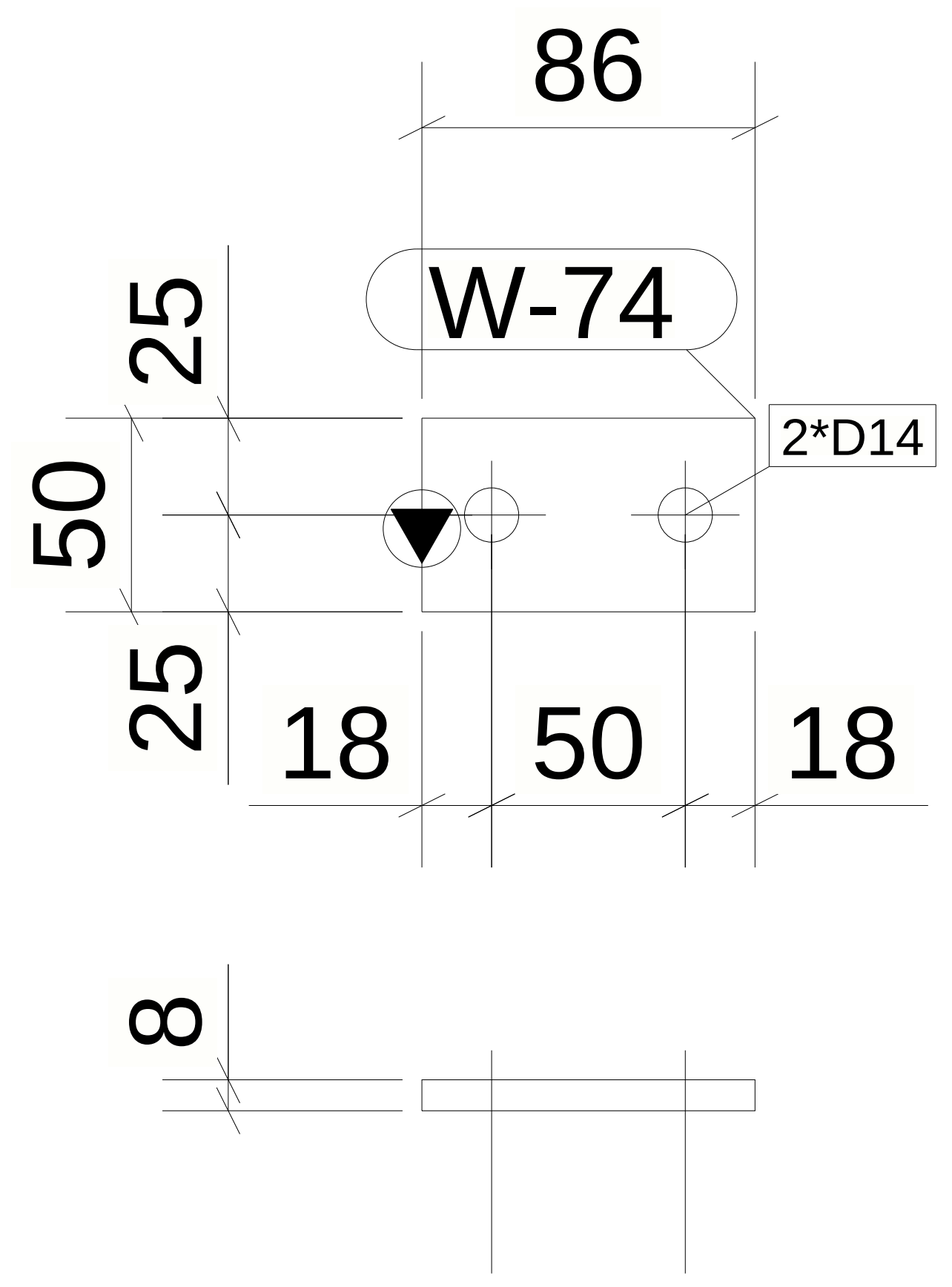
Tekla Structures

Same comments as
93M-0473-ACC-6OL00-DWG-50100-C.

REVIEWED WITH
COMMENT
MONORAILS PROJECT

MATERIAL LIST FOR ASSEMBLY MK'DLP-6

Mark	Profile	GRADE	No.	Length	Area	Weight
W-74	PL8*50	S355JR	1	86	0.01	0.27
				Total	0.01	0.27



2 *REQUIRED AS DRAWN MARKED* LP-6

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

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Structural Designer

KEY PLAN:

6 October Monorail
Engineering Unit
Valid For Construction

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS

DRAWING TITLE

6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
PLATE : LP-6

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
9 3 M	0 4 7 3	A C C	6 0 L 0 0	D W G	5 0 1 0 3	C

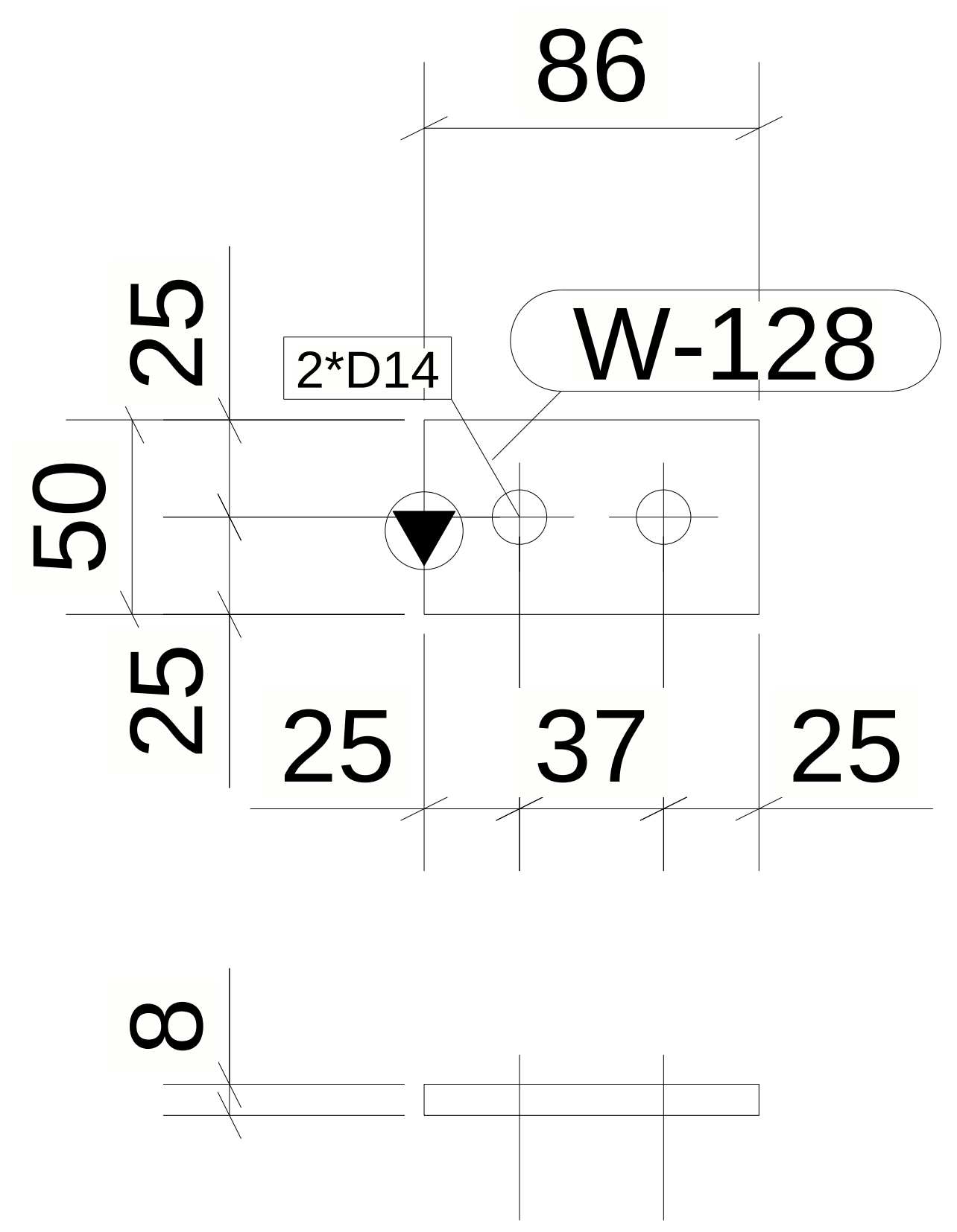
Tekla Structures

Same comments as
93M-0473-ACC-6OL00-DWG-50100-C.

REVIEWED WITH
COMMENT
MONORAILS PROJECT

MATERIAL LIST FOR ASSEMBLY MK'DLP-7

Mark	Profile	GRADE	No.	Length	Area	Weight
W-128	PL8*50	S355JR	1	86	0.01	0.27
				Total	0.01	0.27



2 *REQUIRED AS DRAWN MARKED* LP-7

6 October Monorail
Engineering Unit
Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority

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Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS

DRAWING TITLE

6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
PLATE : LP-7

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
9 3 M	0 4 7 3	A C C	6 0 L 0 0	D W G	5 0 1 0 4	C

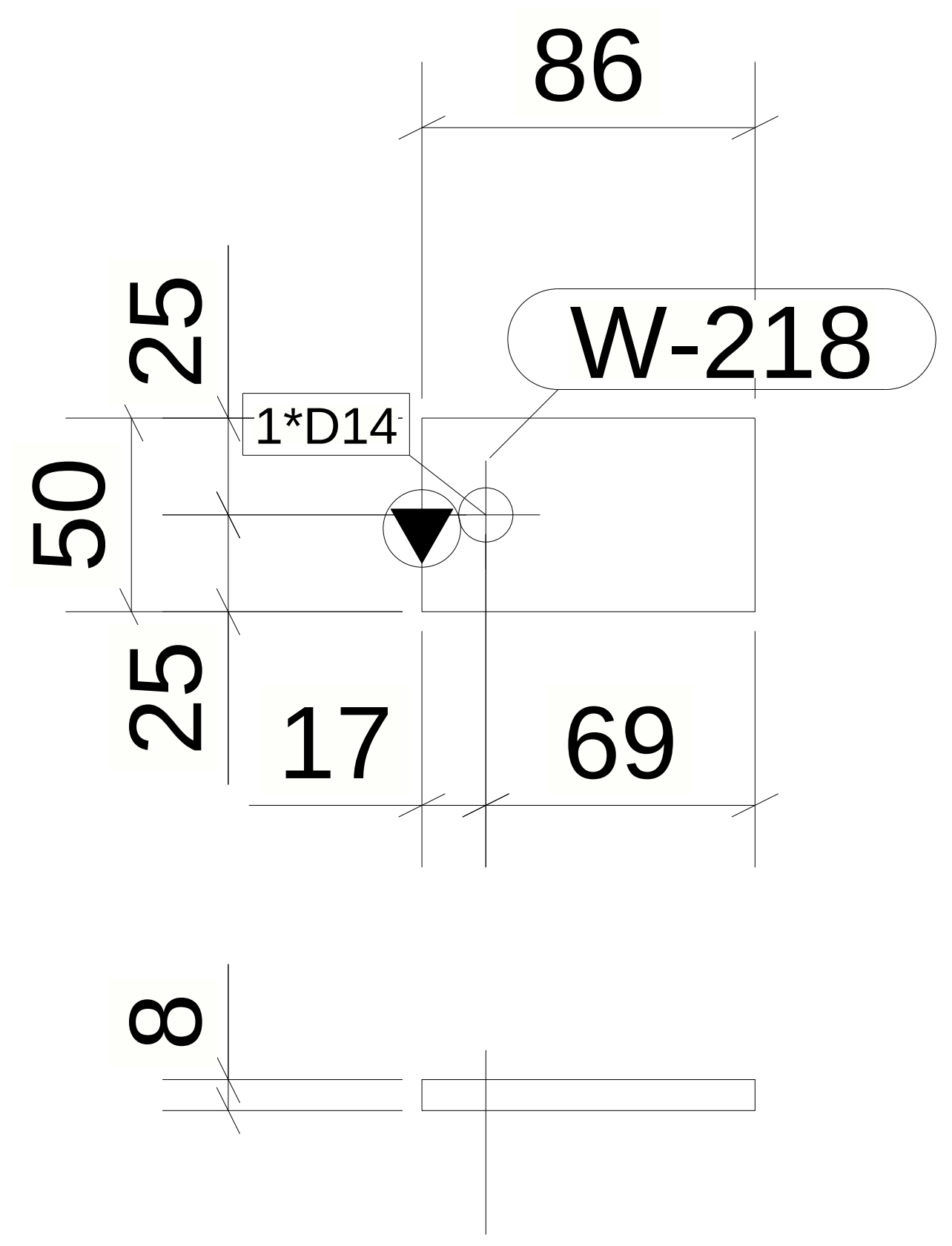
Tekla Structures

Same comments as
93M-0473-ACC-6OL00-DWG-50100-C.

REVIEWED WITH
COMMENT
MONORAILS PROJECT

MATERIAL LIST FOR ASSEMBLY MK'DLP-8

Mark	Profile	GRADE	No.	Length	Area	Weight
W-218	PL8*50	S355JR	1	86	0.01	0.27
				Total	0.01	0.27



2 *REQUIRED AS DRAWN MARKED* LP-8

6 October Monorail
Engineering Unit
Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

Hill International

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Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS

DRAWING TITLE

6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
PLATE : LP-8

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
93M	0473	ACC	60L00	DWG	50105	C

Tekla Structures

MATERIAL LIST FOR ASSEMBLY MK'DVB-1

Mark	Profile	GRADE	No.	Length	Area	Weight
W-27	L80*8	S235JR	1	2461	0.77	23.77
				Total	0.77	23.77

Drawing shall be updated accordingto the comments on the GA drawing.

REVIEWED WITH COMMENT MONORAILS PROJECT

2461
W-27
35
2391
35
40
40
1*D23
1*D23
40
40

1 *REQUIRED AS DRAWN MARKED* VB-1

6 October Monorail
Engineering Unit
Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority

Hill International
Consultant

Main Contractor

Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS

DRAWING TITLE

6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
VERTBRACE : VB-1

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
9 3 M	0 4 7 3	A C C	6 0 L 0 0	D W G	5 0 1 0 6	C

Tekla Structures

Drawing shall be updated accordingto the comments on the GA drawing.

REVIEWED WITH COMMENT
MONORAILS PROJECT

MATERIAL LIST FOR ASSEMBLY MK'DVB-2

Mark	Profile	GRADE	No.	Length	Area	Weight
W-32	L80*8	S235JR	1	3292	1.02	31.78
				Total	1.02	31.78

3292
W-32
35
3221
36
40
40
1*D23
1*D23
40
40

2 *REQUIRED AS DRAWN MARKED* VB-2

GENERAL NOTES:
1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2.WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3.ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority
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Structural Designer

KEY PLAN:

6 October Monorail
Engineering Unit
Valid For Construction

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS

DRAWING TITLE
6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
VERTBRACE : VB-2

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
9 3 M	0 4 7 3	A C C	6 0 L 0 0	D W G	5 0 1 0 7	C

Tekla Structures

Drawing shall be updated accordingto the comments on the GA drawing.

REVIEWED WITH COMMENT
MONORAILS PROJECT

MATERIAL LIST FOR ASSEMBLY MK'DVB-3

Mark	Profile	GRADE	No.	Length	Area	Weight
W-33	L80*8	S235JR	1	3213	1.00	31.02
				Total	1.00	31.02

3213
W-33
35
3141
37
40
40
1*D23
1*D23
40
40

1 *REQUIRED AS DRAWN MARKED* VB-3

6 October Monorail
Engineering Unit
Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority
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KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS

DRAWING TITLE
6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
VERTBRACE : VB-3

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
9 3 M	0 4 7 3	A C C	6 0 L 0 0	D W G	5 0 1 0 8	C

Tekla Structures

Drawing shall be updated accordingto the comments on the GA drawing.

REVIEWED WITH COMMENT MONORAILS PROJECT

MATERIAL LIST FOR ASSEMBLY MK'DVB-4

Mark	Profile	GRADE	No.	Length	Area	Weight
W-34	L80*8	S235JR	1	3211	1.00	31.00
				Total	1.00	31.00

3211
W-34
35
3141
35
40
40
1*D23
1*D23
40
40

1 *REQUIRED AS DRAWN MARKED* VB-4

6 October Monorail
Engineering Unit
Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2.WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3.ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

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Consultant
Main Contractor
Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS

DRAWING TITLE

6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
VERTBRACE : VB-4

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
93M	0473	ACC	60L00	DWG	50109	C

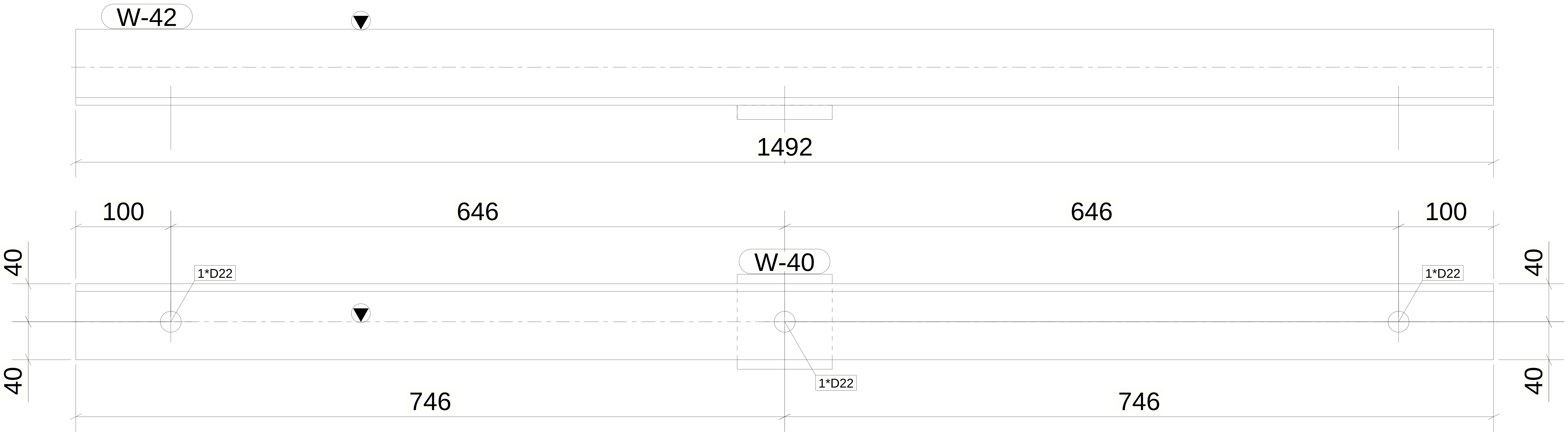
Tekla Structures

Drawing shall be updated accordingto the comments on the GA drawing.

REVIEWED WITH COMMENT
MONORAILS PROJECT

MATERIAL LIST FOR ASSEMBLY MK'DVB-5

Mark	Profile	GRADE	No.	Length	Area	Weight
W-42	L80*8	S235JR	1	1492	0.46	14.40
W-40	PL15*100	S355JR	1	100	0.03	1.18
				Total	0.49	15.58



2 *REQUIRED AS DRAWN MARKED* VB-5

6 October Monorail
Engineering Unit
Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2.WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3.ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority
Consultant
Main Contractor
Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS

DRAWING TITLE

6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
VERTBRACE : VB-5

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
93M	0473	ACC	60L00	DWG	50110	C

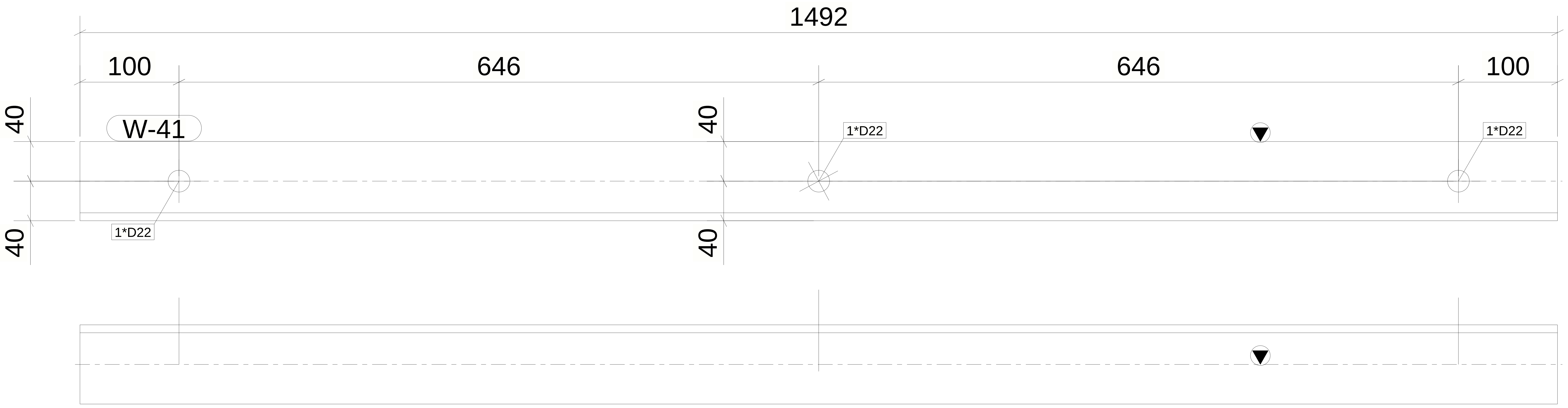
Tekla Structures

Drawing shall be updated accordingto the comments on the GA drawing.

REVIEWED WITH COMMENT
MONORAILS PROJECT

MATERIAL LIST FOR ASSEMBLY MK'DVB-6

Mark	Profile	GRADE	No.	Length	Area	Weight
W-41	L80*8	S235JR	1	1492	0.46	14.40
				Total	0.46	14.40



4 REQUIRED AS DRAWN MARKED VB-6

6 October Monorail
Engineering Unit
Valid For Construction

GENERAL NOTES:
1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2.WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
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REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

The Authority
Consultant
Main Contractor
Structural Designer

KEY PLAN:

SCALE	SHOPDRAWING	DATE
AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS

DRAWING TITLE
6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
VERTBRACE : VB-6

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
9 3 M	0 4 7 3	A C C	6 0 L 0 0	D W G	5 0 1 1 1	C

Tekla Structures

Drawing shall be updated accordingto the comments on the GA drawing.

REVIEWED WITH COMMENT
MONORAILS PROJECT

MATERIAL LIST FOR ASSEMBLY MK'DVB-7

Mark	Profile	GRADE	No.	Length	Area	Weight
W-57	L80*8	S235JR	1	1811	0.56	17.48
				Total	0.56	17.48

1811
W-57
35
1741
35
40
40
1*D23
1*D23
40
40

1 *REQUIRED AS DRAWN MARKED* VB-7

6 October Monorail
Engineering Unit
Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

1	93M-BOA-NAT-LOT-02755
2	93M-BOA-NAT-LOT-19653
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6TH OF OCTOBER CITY RAIL TRANSIT MONORAIL

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KEY PLAN:

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AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS

DRAWING TITLE

6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
VERTBRACE : VB-7

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
93M	0473	ACC	60L00	DWG	50112	C

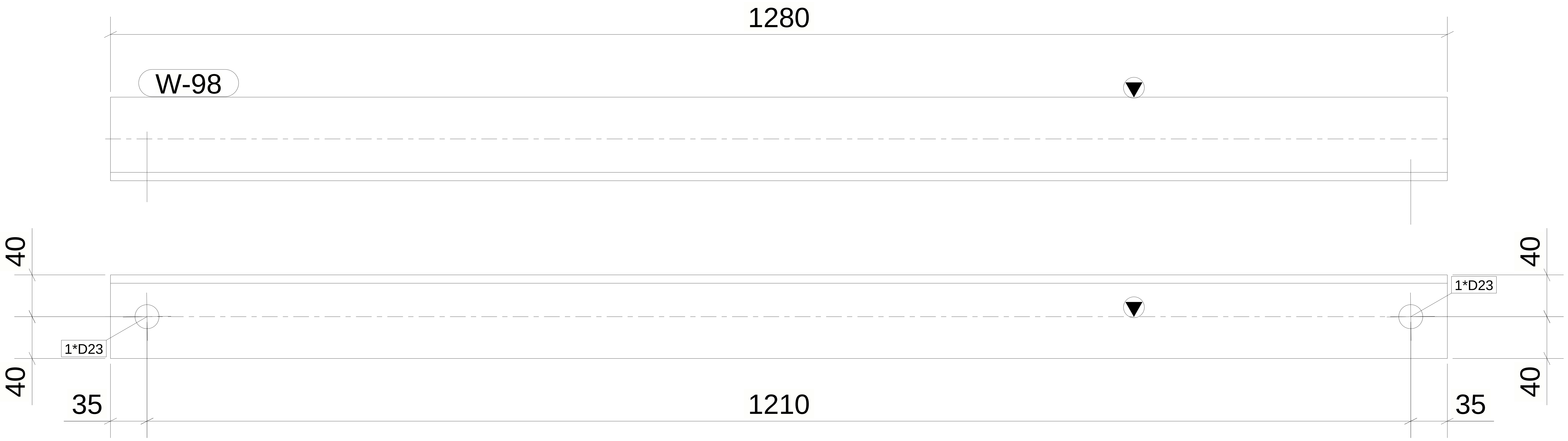
Tekla Structures

Drawing shall be updated accordingto the comments on the GA drawing.

REVIEWED WITH COMMENT
MONORAILS PROJECT

MATERIAL LIST FOR ASSEMBLY MK'DVB-8

Mark	Profile	GRADE	No.	Length	Area	Weight
W-98	L80*8	S235JR	1	1280	0.40	12.36
				Total	0.40	12.36



1 *REQUIRED AS DRAWN MARKED* VB-8

6 October Monorail
Engineering Unit
Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

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AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS

DRAWING TITLE
6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
VERTBRACE : VB-8

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
9 3 M	0 4 7 3	A C C	6 0 L 0 0	D W G	5 0 1 1 3	C

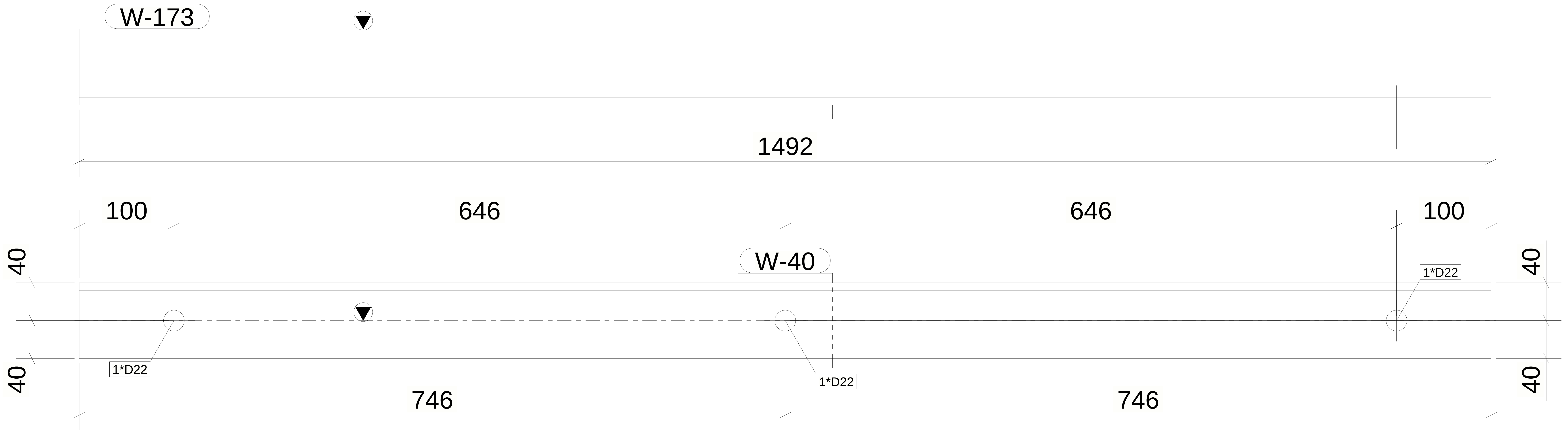
Tekla Structures

Drawing shall be updated accordingto the comments on the GA drawing.

REVIEWED WITH COMMENT
MONORAILS PROJECT

MATERIAL LIST FOR ASSEMBLY MK'DVB-10

Mark	Profile	GRADE	No.	Length	Area	Weight
W-173	L80*8	S235JR	1	1492	0.46	14.40
W-40	PL15*100	S355JR	1	100	0.03	1.18
				Total	0.49	15.58



1 *REQUIRED AS DRAWN MARKED* VB-10

6 October Monorail
Engineering Unit
Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

REFERENCE DRAWINGS

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Hill International
Consultant

Main Contractor

Structural Designer

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DRAWING TITLE

6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
VERTBRACE : VB-10

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
93M	0473	ACC	60L00	DWG	50114	C

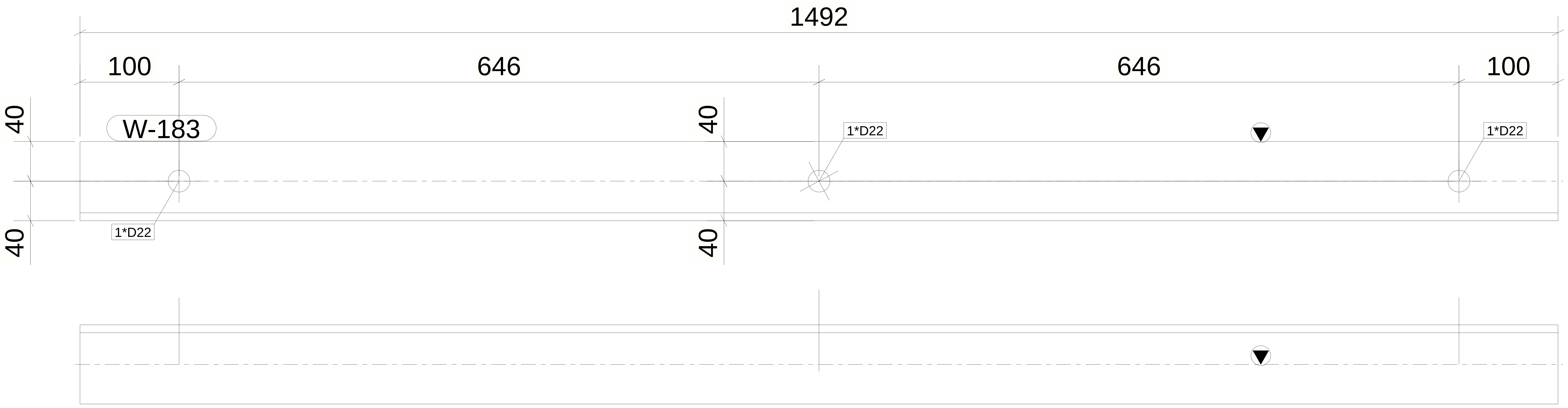
Tekla Structures

Drawing shall be updated accordingto the comments on the GA drawing.

REVIEWED WITH COMMENT
MONORAILS PROJECT

MATERIAL LIST FOR ASSEMBLY MK'DVB-11

Mark	Profile	GRADE	No.	Length	Area	Weight
W-183	L80*8	S235JR	1	1492	0.46	14.40
				Total	0.46	14.40



2 *REQUIRED AS DRAWN MARKED* VB-11

6 October Monorail
Engineering Unit
Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
2. WELD SIZESHALL BE AISC MINIMUM OF 6 mm UNLESS NOTED OTHERWISE.
3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

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REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS

DRAWING TITLE

6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
VERTBRACE : VB-11

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
93M	0473	ACC	60L00	DWG	50115	C

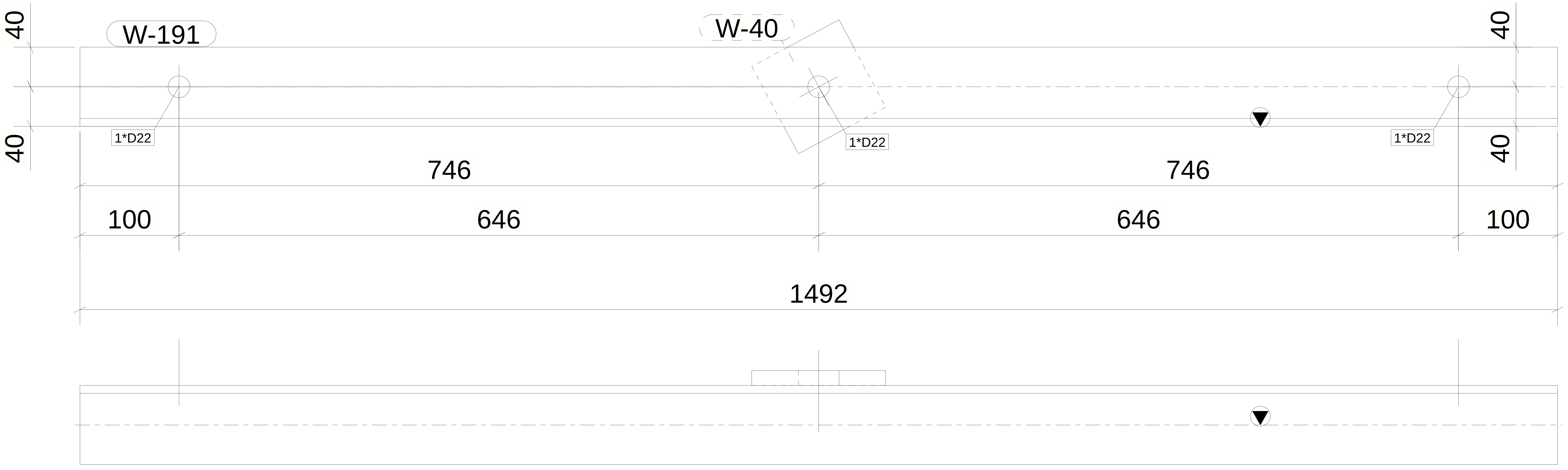
Tekla Structures

Drawing shall be updated accordingto the comments on the GA drawing.

REVIEWED WITH COMMENT
MONORAILS PROJECT

MATERIAL LIST FOR ASSEMBLY MK'DVB-12

Mark	Profile	GRADE	No.	Length	Area	Weight
W-191	L80*8	S235JR	1	1492	0.46	14.40
W-40	PL15*100	S355JR	1	100	0.03	1.18
				Total	0.49	15.58



2 *REQUIRED AS DRAWN MARKED* VB-12

6 October Monorail
Engineering Unit
Valid For Construction

GENERAL NOTES:

1. THE DIMENSIONS SHOWN ARE NOMINAL (IN MILLIMETERS), U.N.O.
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3. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

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AS SHOWN		07.05.2024

REV	DATE	DSG.	CHK.	APP.	AMENDMENTS	STATUS

DRAWING TITLE

6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
VERTBRACE : VB-12

Project Code		Rubric			Initiator			Lot				Ref			Number					Revision
9	3	M	0	4	7	3	A	C	C	6	0	L	0	0	D	W	G	5	0	1	1	6	C

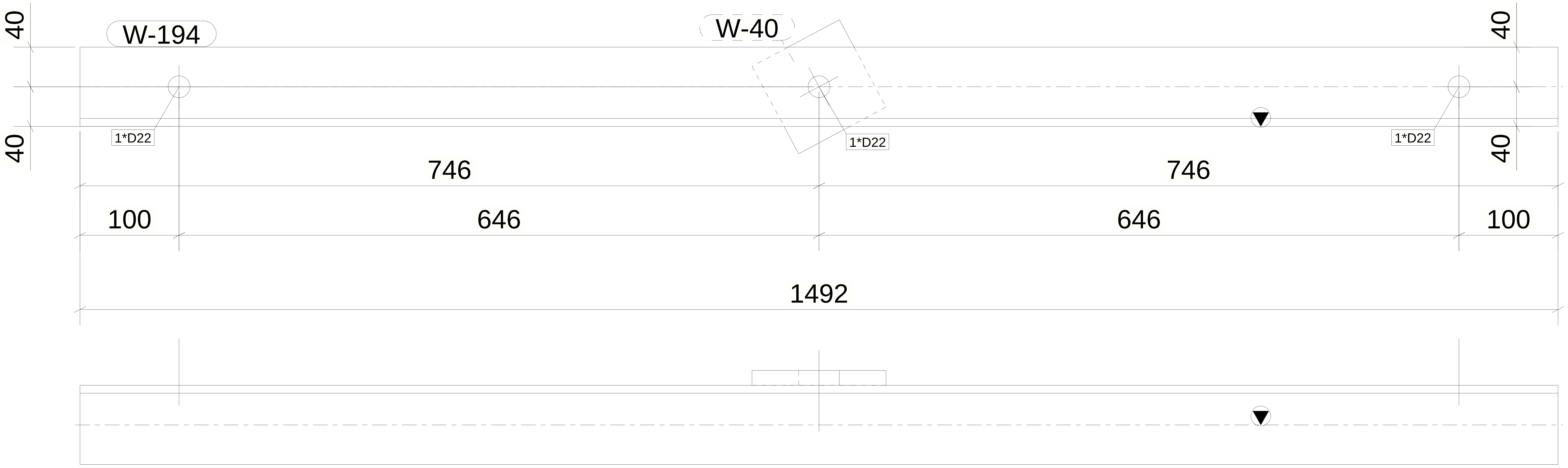
Tekla Structures

Drawing shall be updated accordingto the comments on the GA drawing.

REVIEWED WITH COMMENT
MONORAILS PROJECT

MATERIAL LIST FOR ASSEMBLY MK'DVB-13

Mark	Profile	GRADE	No.	Length	Area	Weight
W-194	L80*8	S235JR	1	1492	0.46	14.40
W-40	PL15*100	S355JR	1	100	0.03	1.18
				Total	0.49	15.58



1 *REQUIRED AS DRAWN MARKED* VB-13

6 October Monorail
Engineering Unit
Valid For Construction

GENERAL NOTES:

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6TH OF OCTOBER MONORAIL
SHOP DRAWING FOR LINE SEGMENT (L00)
VERTBRACE : VB-13

Project Code	Rubric	Initiator	Lot	Ref	Number	Revision
9 3 M	0 4 7 3	A C C	6 0 L 0 0	D W G	5 0 1 1 7	C

Tekla Structures